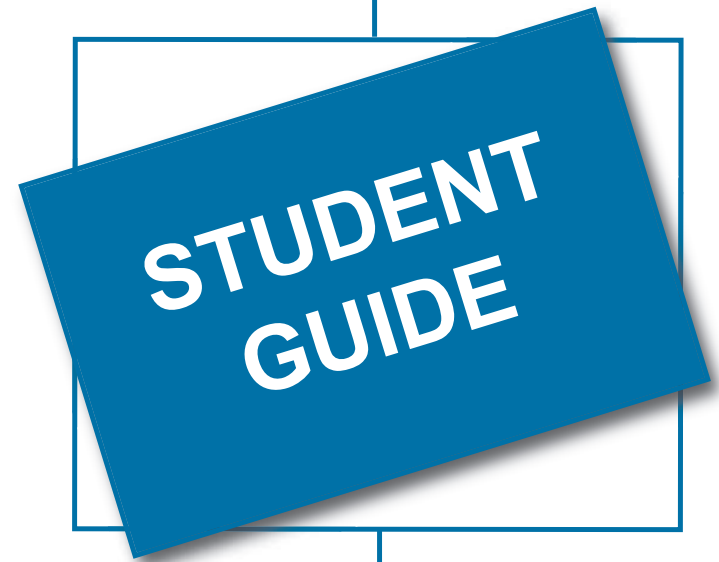


2009

2010



## About the INSTN

The INSTN is a higher education institution attached to the CEA (the French Atomic Energy Commission).

The CEA is under the joint supervision of the Ministries in charge of higher Education and Industry, the Ministry of the Economy, Finance and Employment, and the Ministry of Ecology, Energy, Sustainable Development and Territorial Development.

The INSTN's mission is to disseminate the knowledge and know-how developed at the CEA, which is a technological research organisation of international renown. The CEA has placed a high priority on disseminating its knowledge with the objective of maintaining its expertise and renewing its competencies in research and industry.

The INSTN, whose main facilities are located on the Saclay plateau outside the CEA compound, also has branches at the CEA Centres of Cadarache, Grenoble and Marcoule, as well as on the Cherbourg-Octeville university campus. Each of these branches endeavours to meet the needs of the regional community.

### The INSTN's diversified range of academic degree programmes

- ◆ A work-linked certificate course for radiation protection technicians
- ◆ A work-linked certificate course for radiation protection technologists (Brevet de Technicien Supérieur)
- ◆ A specialised engineering degree in nuclear engineering (Diplôme de spécialisation)
- ◆ Qualifying degree in the medical field (Diplôme de qualification et de spécialisation)
- ◆ Vocationally oriented master's degrees in special fields or research (with joint accreditation)

Its affiliation with the CEA has enabled the INSTN to establish close partnerships with major enterprises in the industrial sector, such as Areva, EDF, Alstom, Dassault and Ter@tec, among others.

All of the INSTN's classrooms are accessible to the mobility-impaired.

### Fields of study

- Nuclear engineering
- Sciences of matter and simulation
- Radiation protection, Biology, Medicine
- Technology and innovation management
- Information and system technologies

### Disciplines

- Nuclear energy, fission-fusion, new energy technologies
- Radiation physics, chemistry, radiochemistry, separation chemistry
- Materials, micro- and nano-technologies
- Modelling and simulation
- Metrology
- Biology, radiobiology, nuclear medicine, radiopharmacy, medical physics
- Risk control: quality, radiation protection, environmental monitoring, security, nuclear security
- Economics of research and innovation, project management

### The INSTN at a glance

- 114 permanent staff members
- 1 200 lecturer/researchers and experts
- 7 000 trainees per year in continuing education
- 800 students per year in academic degree programmes
- 1 000 doctoral students and 300 post-doctoral students trained at the CEA



## Teaching facilities

The INSTN has the following teaching facilities and equipment at its various locations:

- A Van de Graaff type accelerator
- Scanning and transmission electron microscopes (X-ray microanalysis, insulating materials)
- Training facilities for the teaching of intervention techniques in hostile environments
- Laboratories for practical work sessions: biology and radiobiology, chemistry, radiochemistry, metallurgy and characterisation of materials, radiation detection and measurement
- Computer equipment: pressurised water reactor simulators (for normal operation or accidental situations), industrial and protection computational codes, high-performance computational cluster etc.

Moreover, the INSTN has access to most of the CEA's facilities and laboratories.

## Student life - Academic life - Occupational integration

**Saclay** (Building 399 - 2<sup>nd</sup> floor)

Coordination:

|                        |                           |
|------------------------|---------------------------|
| Michelle Bonnin-Mosbah | 01 69 08 88 94 – Room 211 |
| Céline Foricher        | 01 69 08 36 79 – Room 223 |
| Bruno Migdal           | 01 69 08 34 10 – Room 209 |

**Cadarache** (Building 911 - ground floor)

|                        |                          |
|------------------------|--------------------------|
| Tounsia Kacel-Chachoua | 04 42 25 38 55 – Room 11 |
| Danièle Poletti        | 04 42 25 79 35 – Room 01 |

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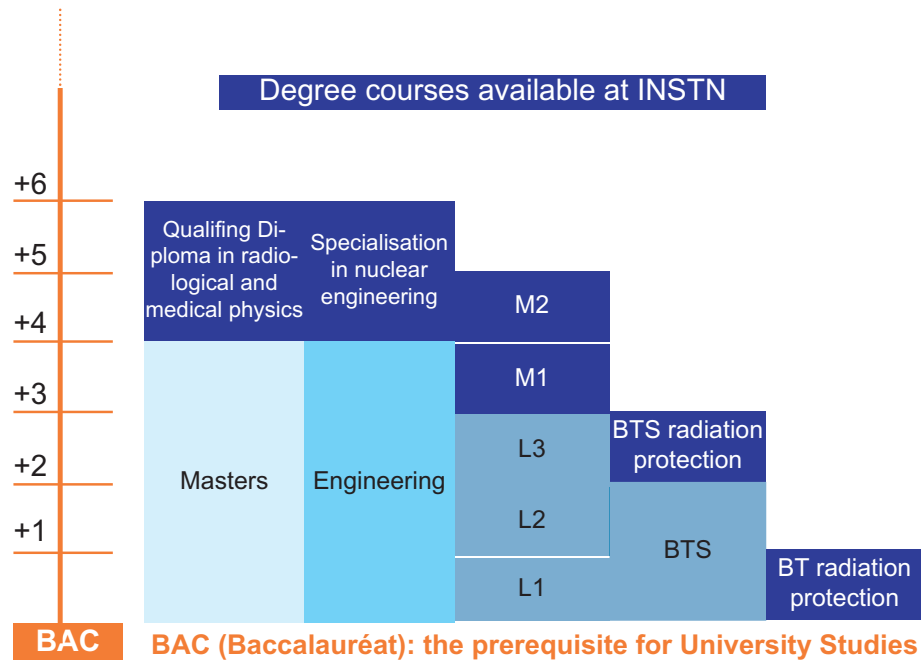
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## Organisation of university studies

The so-called LMD reform (Licence, Master's, Doctorate) of higher education is being implemented gradually at European level. It is structured around three diplomas:

- the Licence at level Bac+3 (L1, L2 and L3),
- the Master at level Bac+5 (M1, M2),
- the Doctorate at level Bac+8.



### The objectives of LMD

- \* Facilitate the recognition of foreign diploma equivalent ratings in Europe.
- \* Facilitate student mobility.
- \* Improve the legibility of diplomas in the job market.

### The pluses of LMD

- \* Development of assistance and support for students.
- \* Accessibility to multidisciplinary courses of study.
- \* Personalisation of academic training to fit personal goals and plans.
- \* Recognition of diplomas at international level.

### Field, special field, specialities

The INSTN academic offering is focussed on the field of "Sciences, technologies and health". This field comprises several special fields corresponding to the major disciplines. For the M2, each special field is broken down into specialities, which reflect the disciplinary and professional competencies acquired by the student.

### Orientation and degree course

Each special field of the Master's degree is broken down into a standard degree course (parcours-type). A standard degree course is a coherent set of unités d'enseignement (UEs) (education units), arranged in an appropriate order of progression. It includes required UEs and optional UEs.

### Credits: the standard european measurement for academic work

Diplomas are composed of Unités d'Enseignement (UEs), each of which has a value in european credits (ECTS\*) proportional to the amount of work completed by the student. These credits can be accumulated and transferred from one course of study to another. The degree course is organised into semesters: One semester = several UEs = 30 ECTS. 60 ECTS must to be obtained for an M2.

(\*ECTS : European Credits Transfer System)

For the INSTN, the majority of its degree programmes are at the M2 level, the year of specialisation for engineering students, and also the year of specialisation in medical physics. Radiation protection, which is taught at the BAC + 1 and BAC + 3 levels, is the major focus of the CEA.

The INSTN is either jointly accredited, or associated with one or more higher educational institutions for Master's specialities. The INSTN is not authorised to deliver diplomas when it is merely "associated" with an institution.

## Specialised engineering programmes

### Engineering diploma with specialisation in Génie atomique (GA)

For engineers specialising in the field of nuclear energy.  
The programme covers scientific and technical aspects pertaining to:

- the design,
- construction,
- operation and
- dismantling of nuclear installations

Admission decisions are made by the admissions committee in May and July on the basis of applications. The deadline for submitting applications is mid-June.

#### Contacts :

- > Joseph SAFIEH, programme director,  
joseph.safieh@cea.fr, 01 69 08 69 94
- > Bruno TARRIDE, academic dean,  
bruno.tarride@cea.fr, 04 42 25 75 84
- > Constance COSTON, academic director at Saclay,  
constance.coston@cea.fr, 01 69 08 55 66
- > Françoise RAOULT, academic secretary at Saclay,  
francoise.raoult@cea.fr, 01 69 08 35 17
- > Bénédicte ROQUE, academic director at Cadarache,  
benedicte.roque@cea.fr, 04 42 25 36 48
- > Tounsia KACEL-CHACHOUA, academic secretary at Cadarache,  
tounsia.kacel@cea.fr, 04 42 25 38 55
- > Yann GAUTUN, academic director at Cherbourg

#### Useful link

<http://www.giga-asso.com/>

#### Professional orientation

Engineers with GA degrees are eligible for careers in the nuclear sector's major organisations and enterprises (EDF, CEA, Areva, IRSN, GDF SUEZ, DCNS etc.), as well as in the numerous service companies and specialised consulting companies serving as partners or subcontractors of nuclear operators.

## Specialisation in health

### Qualifying Diploma in radiological and medical physics (DQPRM)

Training for specialists in radiological medical physics, with the main objective of ensuring the quality and safety of the medical use of ionising radiation.  
Acquisition of competencies in imaging, radiodiagnostic and nuclear medicine, as well as treatment or exploration techniques using non-ionising radiation.

Admission is by competitive examination; application packages are available in december of each year for the beginning of the next academic year.

#### Contacts :

- > Amélie ROUE, programme manager,  
amelie.roue@cea.fr, 01 69 08 60 83
- > Marie MENESTRIER, programme secretary,  
marie.menestrier@cea.fr, 01 69 08 27 95

#### Professional orientation

Training and job description for specialists in radiological medical physics are defined in the decree of 19 November 2004. The DQPRM satisfies the requirements of article 4 of this decree and allows holders of this diploma to practice in hospital environments as specialists in radiological medical physics. The number of persons trained annually is regulated.

## Technical training programmes

### Technician certificate in radiation protection (BT)

This certified training programme is aimed at training radiation protection technicians; students acquire the theoretical and practical knowledge required to exercise the profession of health physicist, including:

- the analysis of situations posing risks of radiological exposure,
- the implementation of simple and appropriate radiation preventive measures,
- the performance and interpretation of common radiation control measurements.

#### Contacts :

##### **Worked-linked training** (Cadarache)

- > Patrice DA SILVA, programme manager, patrice.da-silva@cea.fr, 04 42 25 73 70
- > Danièle POLETTI, programme secretary, danielle.poletti@cea.fr, 04 42 25 79 35

##### **Full-time training** (Cherbourg-Octeville)

- > Serge PEREZ, programme manager, serge.perez-instn@cea.fr, 02 33 01 89 82
- > Laurence BERNASCONI, programme secretary, laurence.bernasconi@cea.fr, 02 33 01 89 89

#### Professional orientation

Technicians holding this certificate are eligible for careers in nuclear research or industry (CEA, Areva, EDF etc.), and in businesses and public or private laboratories using ionising radiation.



### Advanced Technician certificate in radiation protection (BTS)

This certified training programme helps students better understand the constraints related to working around ionising radiation. Technicians holding the BTS certificate participate in the formulation of radiation protection measures appropriate for the various situations with which they are confronted. They are prepared to implement all techniques relative to the control of radiation and apply the rules of protection against radiation and contamination in conformity with current legislation.

This course is organised as a work-linked programme. Possible contracts include: apprenticeship, professionalisation, continuing education.

#### Contacts :

- > Patrice DA SILVA, programme manager, patrice.da-silva@cea.fr, 04 42 25 73 70
- > Danièle POLETTI, programme secretary, danielle.poletti@cea.fr, 04 42 25 79 35

#### Professional orientation

Graduates of this course are oriented towards nuclear research and industry (CEA, Areva, EDF etc.), nuclear service companies, hospitals, businesses and laboratories using radioactive isotopes etc.



## Master's programmes

### Field: Sciences, Technologies, Health

The Masters cited are jointly accredited with one or more higher educational institutions. The INSTN is authorised to deliver diplomas for these masters.

Details are available on the INSTN website: <http://www-instn.cea.fr>

#### Special field : BIOLOGY, HEALTH

- Speciality: Structural and functional engineering of biomolecules  
Joel COTTON  
Contact: Martine MURY, 01 69 08 89 09
- Speciality: European Master in radioprotection  
Paul LIVOLSI  
Contact: Laure GENEVOIS, 04 38 78 40 41

#### Special field : CHEMISTRY AND APPLICATIONS

- Speciality: Process and physical chemistry engineering  
Daniel RIPPERT  
Contact: Tounsia KACEL-CHACHOUA, 04 42 25 38 55
- Speciality: Separation chemistry, materials and processes: application to the nuclear fuel cycle  
Contact: Marie-Hélène HENGE-NAPOLI, 04 66 79 61 68

#### Special field: MOLECULAR IMAGING

- Speciality: European Master in Molecular imaging  
Elena CECCARELLI  
Contact: Martine MURY, 01 69 08 89 09  
Website: <http://www.e-mmi.eu>

#### Special field: INFORMATION AND SYSTEMS TECHNOLOGY

- Speciality: Engineering of complex industrial systems
- Speciality: Onboard electronic systems and industrial computing  
Christine PAREY  
Contact: Christine LASLANDES, 01 69 08 34 78

#### Special field: SYSTEMS ENGINEERING

- Speciality: Instrumentation of test facilities in hostile environments  
Daniel RIPPERT  
Contact: Tounsia KACEL-CHACHOUA, 04 42 25 38 55

#### Special field: TRACEABILITY ENGINEERING AND SUSTAINABLE DEVELOP-

- Speciality: Scientific and technological management of radioactive waste  
Marie-Hélène HENGE-NAPOLI  
Contact: Myriam MILANKOVIC, 04 66 79 69 40
- Speciality: Remediation and dismantling of nuclear installations  
Marie-Hélène HENGE-NAPOLI  
Contact: Michèle LE ROUX, 04 66 79 60 29

#### Special field: MATERIALS

- Speciality: Materials for structures and energy  
Constantin MEIS  
Contact: Sabrina JONQUEUR, 01 69 08 50 40

#### Special field: NANOSCIENCES AND NANOTECHNOLOGIES

- Speciality: Nanotechnology and nanobiologies
- Speciality: Nanochemistry and nano-objects
- Speciality: Nanophysics, nanostructures
- Speciality: Engineering of micro- and nano-structures  
Contact: Chantal TARDIF, 04 38 78 93 83

#### Special field: PHYSICS AND APPLICATIONS

- Speciality: Radiation and energy  
Joseph SAFIEH  
Contact: Caroline FOUILLERET, 01 69 08 42 32
- Speciality: Nuclei, particles, astroparticles and cosmology  
Bijan SAGHAI  
Contact: Sabrina JONQUEUR, 01 69 08 50 40
- Speciality: Nuclear Engineering  
Pascal DANNUS  
Contact: Caroline FOUILLERET, 01 69 08 42 32  
Website: <http://www-master-nuclear-engineering.eu>
- Speciality: Fusion sciences  
Guy BONNAUD  
Contact: Sabrina JONQUEUR, 01 69 08 50 40  
Website: <http://www-sciences-fusion.fr>

### Special field: MATHEMATICS AND APPLICATIONS

- Speciality: Modelling and simulation  
Franck JEDRZEJEWSKI  
Contact: Jeanne DAVY, 01 69 08 58 50  
Website: <http://www-masters.cea.fr>

### Special field: MEDICAL PHYSICS

- Speciality: Medical imaging  
Akli HAMMADI
- Speciality: Radiological medical physics  
Amélie ROUE
- Speciality: Biomedical engineering  
Akli HAMMADI  
Contact: Martine MURY, 01 69 08 89 09

### Special field: ENVIRONMENTAL SCIENCES

- Speciality: Climate/environment interaction and remote sensing  
Didier PAILLARD  
Contact: Sabrina JONQUEUR, 01 69 08 50 40

### Special field: ECONOMIC SCIENCES AND MANAGEMENT

- Speciality: Management of technology and innovation  
Lionel MONTOLIU  
Contact: Christine LASLANDES, 01 69 08 34 78  
Website: <http://www.dauphine.fr/imri/MTI>
- Speciality: Economics of sustainable development, energy and the environment  
Nidhal OUERFELLI  
Contact: Jeanne DAVY, 01 69 08 58 50



## Teachings under agreement

The INSTN also participates in studies included in university degree courses:

### Specialised studies diploma (DES) in nuclear medicine:

Medical students who are preparing for internships in medical specialities can register for the DES in Nuclear medicine in an accredited university with the authorisation of the interregional training coordinator. In order to take theoretical course work, they must also register at the INSTN after their application has been signed by the coordinator.

### Complementary specialised studies diploma (DESC) in radiopharmacy and radiobiology:

Pharmacy interns who are preparing a DES in Pharmacy and medical interns in the field of "medical biology" can register in an accredited university in their interregion with the goal of obtaining a DESC in Radiopharmacy and Radiobiology with the authorisation of the regional training coordinator. They must also register at the INSTN to be able to take theoretical course work.



## Occupational integration

The training offered at the INSTN – such as specialisations in nuclear engineering (GA), health and the BT and BTS training programmes – meets the needs expressed by industry and/or institutions. The employability rate is nearly 100%.

The following employability data is available concerning joint master's programmes for which students have registered at the INSTN:

- For the speciality "Modelling and simulation"  
60% of students go on to write a doctoral thesis, 30% find fixed-term or open-ended employment contracts and 10% pursue another orientation (reorientation, aggregation, etc.).
- For the specialty "Economics of sustainable development, energy and the environment"  
90% find fixed-term or open-ended employment contracts and 10% go on to write a doctoral thesis.
- For the specialty "Fusion sciences"  
68% choose to do a doctorate, 23% find fixed-term or open-ended employment contracts.

## Doctorate

The doctorate is the diploma characterised at international level by a high level of knowledge in a specific field. In France, it is normally obtained after three years of research and a "viva voce" examination before a panel of university professors and other experts accredited to supervise research.

The doctorate constitutes an initial professional experience. After successfully defending your doctoral thesis, you are granted the title of Doctor in a particular discipline and the rank of Doctor at the level of European higher education and research.

### Why should I do a doctorate?

Writing a thesis reflects your desire to acquire expertise in a field. With that objective in mind, you will need a solid foundation and a good support team. The title of Doctor is an act of recognition by the scientific community. The doctorate is more than a diploma, it is a recognition of scientific and cross-disciplinary competence. Personal development through scientific reading, participation in conferences and seminars and keeping up with all recent developments in your field of research are also integral parts of your training. Doctoral students must fully involve themselves in the process of writing for publication and participating in symposiums.

### Who should do a doctorate?

To begin work on a doctoral thesis, you must first have a master's degree. It is recommended that engineering students do a research masters (MR2) during the year they complete their degree (last year of school).

The doctorate involves a long and rigorous process of teamwork. Regardless of the field, the thesis must be personal and collective: the work must be completed on your own, but in the service of the community. The first step consists in finding an équipe d'accueil (host team) and a thesis director. The latter must hold an HDR (Higher Degree by Research, Habilitation à Diriger des Recherches in french). The second step consists in selecting the thesis topic. The topic may evolve as needed as the research work progresses. The topic must be unique and the thesis must contribute additional original knowledge. That is why the first part is normally devoted to a state of the art. The student must register in an Ecole Doctorale (ED) (Doctoral School) accredited by the Agence d'Evaluation de la Recherche et de l'Enseignement Supérieur (AERES) (Agency for the Evaluation of Research and Higher Education), or in an establishment associated with an accredited doctoral school. This accreditation must cover the field of discipline of the thesis. The objective of accreditation is to ensure the quality of the teaching and doctoral training. To encourage doctoral schools to open their programmes internationally, a system of joint international supervision has been set up.

For students, choosing to do a thesis involves special competencies and qualities, such as:

- Scientific and technical competencies, critical and analytical faculties, curiosity and imagination, determination and a capacity for learning, flexibility and an open mind, attention to detail and a spirit of initiative.
- Management and project management skills.
- Oral and written communication skills, development of a knowledge network, teamwork.

### **The new doctoral contract**

The Journal Officiel (Official Gazette) of 23 April 2009 describes the terms and conditions of the new doctoral contract and the amount of compensation to which the doctoral student under contract is entitled. The doctoral contract introduces a new legal framework that permits public establishments of higher education and/or research institutions to recruit doctoral students under a special contract. The decree specifies the details of the doctoral contract: it is concluded for a term of three years and its effective date, expiry date and the purpose of the service must be specified. The contract may include a two-month probationary period. During this period, the contract may be terminated by either party via recorded delivery post with acknowledgement of receipt, without compensation or advance notice. It also defines the scope of activity of doctoral students, which in addition to research activities may include annual service equal to one sixth of the total annual duration of work actually performed, for: teaching, the dissemination of technical and scientific information, the promotion and implementation of research results, and expertise missions performed in companies, regional or local authorities, administrative authorities, public institutions, associations or foundations. The seniority of doctoral students under contract is counted from the date on which the current contract was initially concluded.

In 2009, the minimum monthly gross compensation for doctoral students under contract was set by decree at 1,663.22 euros and 1,998.61 euros if the doctoral student performs tasks other than research (teaching, for example). This measure is not retroactive and therefore does not apply to doctoral students already under contract.

### **Financing your thesis**

There are several different ways to finance your thesis. If the doctorate is considered a first professional experience, then this work deserves to be compensated. It is difficult to encourage new graduates to register for doctoral programmes if the medium- and short-term financial outlook is not commensurate with their competencies. First of all, you should know that the choice of financing is more important than is generally realised. It is important to have well-thought-out career goals: do you intend to work in the public or private sector, for example? The choice of an appropriate finance option depends on your career goals. Several options are described below:

#### **1. Funding by the Ministry of higher education and research**

Each year, the Ministry grants a quota of allocations to doctoral schools, which the latter make available via a competitive process after defining the thesis topics and the équipes d'accueil (host teams). The allocations are awarded by the doctoral schools to the best candidates after examining their applications.

<http://www.enseignementsup-recherche.gouv.fr/cid20185/doctorat.html>

Certain laboratories finance their doctoral students themselves, often via industrial or consular partnerships.

#### **2. Convention industrielle de Formation par la Recherche (CIFRE) (Industrial Agreement on Training through Research)**

This is a tripartite agreement between a laboratory, an industrial enterprise and the doctoral student. The objective is to enable doctoral students to be hired in an executive position and spend part of their working hours preparing their thesis in a public or private laboratory. The research time is invoiced by the enterprise to the Association Nationale de la Recherche Technique (ANRT) (National Association for Technical Research). The objective of these agreements is also to encourage cooperation between laboratories and enterprises and expand research and technology transfers.

[http://www.anrt.asso.fr/fr/espace\\_cifre/mode\\_emploi.jsp](http://www.anrt.asso.fr/fr/espace_cifre/mode_emploi.jsp)

#### **3. Bourse de Doctorat pour Ingénieurs (BDI) (Doctoral Scholarship for Engineers)**

This scholarship is awarded by the CNRS, which finances it in whole, or in part with another research organisation (an enterprise) or public authority (a region). It may be allocated (or declined) to laboratories associated with the CNRS that have submitted a request to the CNRS specifying the thesis topic, the équipe d'accueil (host team) and the doctoral candidate's CV. Preferably, the doctoral candidate should hold an engineering diploma or equivalent diploma (in addition to the masters). Candidates are advised to apply early in the year (the application deadline is the end of February-beginning of March).

<http://www.sg.cnrs.fr/drh/emploi-nonperm/formation.htm>

#### 4. Region scholarships or Allocations by public authorities

Public authorities (primarily regions) can offer research laboratories scholarships or thesis allocations on topics deemed to have priority by the latter. Depending on the region, the procedures for awarding allocations follow a process similar to the procedure described above for the BDI (topic, lab, the candidate's CV).

#### 5. Funding by private organisations

Decree n°. 2008-390 concerning the sponsorship of doctorates by private enterprise permits companies to contribute to the "funding of doctoral research by making a payment, on behalf of the doctoral school, either to the establishment authorised to deliver the national doctorate diploma or an associated establishment (...) or to the university foundation created within this institution". The company's contribution can thus constitute "all or part of the compensation received by the doctoral student under a contract concluded with a public establishment or an institution associated with the doctoral school". To obtain such funding, candidates are invited to contact laboratories directly and consult the Internet sites of large industrial enterprises.

#### 6. Scholarships for foreign students

The Institut de Recherche pour le Développement (IRD) (Research Institute for Development) grants scholarship to foreign students with master's degrees. Depending on the country, it is possible for certain foreign students under certain conditions to obtain a thesis grant from their government and/or the French government. This type of funding is increasingly rare.

[http://www.ird.fr/fr/science/dsf/programme/soutien\\_ind.htm](http://www.ird.fr/fr/science/dsf/programme/soutien_ind.htm)

#### Doing a doctorate at the CEA

Each year, the CEA may grant approximately one hundred thesis contracts to doctoral students, who will then prepare their theses in its laboratories or its associated laboratories. The objective of this thesis contract is to permit selected young doctoral students to carry out a research project in one of the CEA's numerous areas of expertise: fundamental research in physics and the life sciences, technological research for industry, R&D for nuclear energy, defence activities, security and nuclear safety.

Upon completion of a research project, which is supervised by an experienced engineer or researcher together with a thesis director accredited by the University, those students who successfully defend their theses obtain a University doctoral degree.

There are four types of thesis contracts, which differ by their funding methods:

- Contrat de formation par la recherche (CFR) (Training through research contract)
- Contrat de thèse sur budget unité (CTBU) (Unit budget thesis contract)
- Contrat de thèse CEA-industrie (CTCI) (CEA-Industry thesis contract)
- Contrat de thèse CEA-région (CTCR) (CEA-Region thesis contract).

Consult the website: <http://www-instn.cea.fr> for application conditions and thesis topics.

#### After the doctorate

After a doctorate, two main professional orientations are open to the graduate :

- \* an academic career (which traditionally includes both research and teaching) ;
- \* a career in industry (holders of doctorates are very much in demand by R&D departments most notably, as well as for executive positions in certain firms).

PhDs have expertise, as well as the ability to innovate and solve complex problems.

## Registration and student affairs

All students who formally register at the INSTN for the academic year ; must complete the following formalities with their dedicated contact person (i.e. the academic secretary):

- Provide the following information needed for the delivery of a 2009-2010 student card: Name of the academic programme, INSTN location (Saclay, Cadarache, Cherbourg), Last name, First name, Date of birth, INE n°. , a good quality photo.
- Complete the SISE registration form at the earliest opportunity (available from the academic secretary) and return it to the academic secretary.

Then, at the start of the new term:

- 1 || Pay the registration fees:  
Génie Atomique: €538 - DQPRM: €350 - Masters: €231 - BT/BTS: €290
- 2 || Pay tuition fees, if applicable:  
€600 for Génie Atomique (GA)
- 3 || Enrol in Student Social Security: €198
- 4 || Collect a dining hall card (refer to the "Food service" section for Cadarache (p.39) or Saclay (p.49)

### Cadarache

- 5 || Collect a temporary access authorisation to the CEA Centre (refer to the section "Special access procedures at Cadarache" p.37)

### Saclay

- 5 || Collect a CEA bus pass from the academic secretariat (refer to the section "Special conditions of access to the Saclay coach station" p.46)

## Administrative formalities for foreign students from outside the European Community

Since 1st June 2009, it is no longer necessary to obtain a residence permit upon arrival in France for any student with a "long stay student" visa valid for more than three months and less than a year.

To stay in France longer than three months and up to one year, each student, within three months of his or her date of arrival in France, must present information pertaining to his or her civil status and address in France to the Office français de l'immigration et de l'intégration (French immigration and integration office) (O.F.I.I. [http:// www.ofii.fr](http://www.ofii.fr)) and undergo a regulation health inspection (cost: €55). More detailed information is available in the section "Entry requirements and conditions of stay in France" (<http://www-instn.cea.fr>).

### For students at Cadarache

Branch offices of the Aix-Marseille CROUS have been set up to provide walk-in services for foreign students.

#### **Service Accueil des Etudiants Etrangers (ACEE)**

(Foreign Student Walk-in Service) in Aix:  
Division de la Vie de l'Etudiant (Student life Division)  
Cité Les Gazelles - avenue Jules Ferry  
13621 AIX EN PROVENCE cedex 01  
[acee.aix@crous-aix-marseille.fr](mailto:acee.aix@crous-aix-marseille.fr)  
Tel.: 04.42.93.48.24  
<http://www.crous-aix-marseille.com>

#### **Maison aixoise de l'étudiant (Aix student centre)**

3 rue de Cuques  
13100 Aix-en-Provence  
Tel.: 04 42 38 79 52  
[maisonetudiant@mairieaixenprovence.fr](mailto:maisonetudiant@mairieaixenprovence.fr)

This is a municipal organisation operated by the Association des Étudiants du Pays d'Aix (ADEPA) (Aix region student association), whose mission is to help students prepare for the new academic year (by providing housing and job offers etc.).

### For students at Saclay

The Bureau d'accueil des étudiants en mobilité (BAEM) (Walk-in service for itinerant students) of the Paris Cité International Universitaire (Maison Internationale, 17 boulevard Jourdan, 75014 Paris – Tramway T3 or RER B - Tel.: 01 70 08 76 30) provides additional assistance for foreign students from September to December, Monday through Friday from 9:00 am to 4:30 pm (4:00 pm on Friday). After free registration, it advises and informs students on the procedures for obtaining housing, residence permits if their stay is extended, work permits, housing allowances, social security, French courses etc. It then directs them to the various appropriate public services.

### Student social security

Higher educational institutions are required to enrol their students in the French social security system. There is a MANDATORY enrolment charge which must be paid on the day of registration by all students less than 28 years of age (except employed students – see below).

Students with a CROUS scholarship are exempt (except level 0); they will be asked to present evidence of the final award of the scholarship at registration.

Student social security is managed by the two official student mutual benefit societies (mutuelles) (LMDE/SMEREP for the Paris region and LMDE/MEP for the PACA region).

Students choose their payer centre (i.e. one of these two mutuelles) for the management of their student social security (the mandatory share).

Although it is highly recommended to do so, students are not required to take out the complementary health coverage available from the approved student mutuelles.

Social security subscription charge (mandatory portion): €198

Employed students: employed students may be exempted from enrolling in the student social security scheme if they can provide evidence of:

- an apprenticeship contract (student-apprentice)
- a fixed term or open-ended employment contract covering the entire academic year concerned and provided that this contract represents a number of hours greater than or equal to 60 hours per month.

Important: If the employment contract (whether fixed term or open-ended) should be interrupted during the year, it is imperative that the student enrol in the student social security scheme and pay the subscription charge. In fact, as soon as the employment contract is terminated, the employed student loses his or her social protection coverage and must enrol in the student scheme.

## Student mutual benefit societies (mutuelles)

### For students at Cadarache

#### LMDE - Aix-en-Provence branch

Rue des Allumettes  
Résidence de l'Arche  
13090 AIX-EN-PROVENCE  
Monday through Thursday: 9:30 am-12:30 pm and 1:30 pm-5h30 pm – Fridays:  
9:30 am-12:30 pm  
(Open on Friday afternoons in September and October)  
Maël Bernard - Manager of the Aix-en-Provence Academic Sector  
Tel.: 04 42 38 21 10 - Fax: 04 42 38 24 83 - mbernard@lmde.com

#### MEP - centre 617

CS 20001 - 13942 MARSEILLE cedex 20  
<http://www.mep.fr>  
Benjamin Chkroun - Manager of the Aix-en-Provence Academic Sector  
Tel.: 0 825 081 881

### For students at Saclay

#### LMDE – Centre 601

94209 Ivry Sur Seine Cedex  
<http://www.lmde.com>  
Telephone hours: (Monday through Friday from 9:30 am to 6 pm) by dialling  
32 60 and saying "LMDE" (€0.15/minute)  
Malika Grini - Manager of the Versailles Academic Sector  
Tel.: 01 49 42 85 40 - Fax: 01 49 42 45 26 - mgrini@lmde.com

#### SMEREP - BP 617

75662 Paris cedex 14  
<http://www.smerep.fr>  
Tél.: 01 56 54 36 34 (du lundi au jeudi de 9h à 18h, le vendredi  
de 9h à 17h30)  
Lyes Afroune - Manager of the Ile-de-France Sector  
[contact@smerep.fr](mailto:contact@smerep.fr)

## Scholarships

### CROUS scholarships

Whether the student is registered at Saclay or Caradache, the relevant Crous branch is the Crous of the Versailles Academy (education authority), to which his or her application must be transferred.

### Grants for internships abroad

International mobility grants of the Ile-de-France General Council

Students who go abroad for an internship can obtain a grant from the Ile-de-France Region. In 2008/09, the amount of the grant was €413 per month. All students registered in the Region's higher educational institutions are eligible (including Cadarache students) beginning at the licence level, whether they are scholarship students or not, if they meet the relevant family income requirements. The stay is for a minimum period of two months.

Important: the request for aid should be made well in advance.

- 1st call for applicants: for internships planned between 1 January and 30 April, the application deadline is mid-November
- 2nd call for applicants: for internships planned between 1 May and 31 August the application deadline is mid-March

### CROUS international mobility supplementary grant

If you must go abroad for part of your studies during the year, you can request additional aid to meet travel and living expenses.

This aid is granted to students on social criteria for a quarter or a semester of studies abroad as part of their university degree course. But a non-scholarship student on social criteria whose family is not subject to income tax may also be eligible for an international mobility grant via the Sésame plan offered by the CROUS.

Grant amount for the year 2008/09: €400 per month

For further information, consult: [http://www.crous-versailles.fr/aides\\_129.htm](http://www.crous-versailles.fr/aides_129.htm)

## Financial and social aid

### Financial aid

#### **Aid provided by the FSU**

The Fonds de Solidarité Universitaire (FSU) (University Solidarity Fund) is an emergency fund managed by C.R.O.U.S social workers. This fund grants aid on an occasional basis (about 50 to 1,200 € annually) to students after an interview and anonymous examination before a committee that meets on a regular basis.

In contrast with loans on honour, this aid may be provided in a variety of situations, such as late payment of a scholarship or grant, the interruption of family support, academic or medical expenses etc. In theory, a student may only receive a single FSU grant for the entire period of his or her studies. However, when faced with a multitude of problems, students may receive up to three or four grants from the F.S.U over their entire period of studies.

To obtain an FSU grant, students must make an appointment with a social worker (see contact details opposite) who will help them put together an application which will then be presented to the committee.

#### **Emergency grants from the FSDIE:**

(Fonds de Solidarité et de Développement des Initiatives Etudiantes) (Solidarity and development fund for student initiatives)

The FSDIE fund is supported by a portion of the registration fees paid by students. In theory, about 30% of the funds of the FSDIE must be devoted to emergency social aid. As for the grant described above, students should contact a CROUS social worker.



### Social aid

Independently of financial aid, social workers are also available to students if they are in need of information, guidance or assistance, or when they encounter occasional problems of a personal, relational, family, social or legal nature.

#### **Contact details of social workers:**

##### Cadarache

Mme PONS - Tél. : 04 42 16 13 13  
Social service - Tél. : 04 42 91 30 20

##### CROUS

Division de la vie étudiante (Student life division)  
Cité Universitaire les Gazelles  
31, avenue Jules Ferry  
13621 Aix en Provence cedex 1

##### Saclay

Mme CATALA - Tél. : 01 69 15 72 92  
Mme BAILLY - Tél. : 01 69 15 41 65  
Secretary - Tél. : 01 69 15 70 64

UFR Orsay  
Bât 332  
2nd floor  
91405 Orsay Cedex



## Diplomas

While waiting for the delivery of the final diploma, students will be given a certificate of success.

The diploma is sent to students via recorded delivery post with acknowledgement of receipt no later than six months after the deliberations of the examination panel. It is accompanied by the diploma supplement.

The diploma supplement describes the knowledge and competencies acquired by the student (nature, level, content, etc.). It enables employers or institutions of higher education in other countries to clearly understand the content and value of the diploma.

It is personalised (specifying options and any internships completed) and is recognised throughout Europe.

## Internships

During the academic year, students are required to complete a mandatory internship in an enterprise with a maximum duration of six months (except for DQPRM students for whom the maximum duration is 12 months). The internship mark is taken into account in the decision to award the final diploma. Student interns maintain their student status for the entire period of the internship.

### Internship offers:

- Ask your academic secretaries for further information
- Consult the ANPE, APEC, Infostages websites
- Contact enterprises directly
- Consult the CEA/DRHRS website

A tripartite agreement (between the teaching establishment, host establishment and student) must be signed one month before the beginning of the internship. This agreement complies with the enterprise internship charter concluded on 26 April 2006, signed by the Conference of University Presidents.

The standard agreement is available from the academic secretary or directly on the INSTN's "Vie étudiante/Scolarité" (Student life/Academic life) website.

It must be returned to the academic secretary, in triplicate, signed by the three concerned parties: the manager of the host organisation (company or public body), the director of the INSTN and the student.

Any internship included in an academic training programme benefits from social protection coverage, while the "occupational injury" risk is covered by the academic institution.

In any event, it is imperative to have a civil liability insurance policy. Civil liability insurance provides coverage when the student is responsible for an accident involving a third-party.

The student agrees to take out this insurance coverage when he or she signs the internship agreement. The Student Mutuelles have formulated several insurance contracts designed to meet the needs of students, most notably the "Assurance Universitaire" (University Insurance) contract.



## Regulations

The pursuit of academic studies involves observing certain basic rules of good conduct. If you fail to follow these rules, you risk compromising your studies as well as your future.

By way of example, “any act not in conformity with the internal regulations or rules of use of the Institute’s computing system, any offence against personal safety or property (aggression, damage to hardware etc.), any act likely to undermine the established order or smooth functioning of the Institute, any fraud, attempted fraud or complicity in fraud committed during registration, a continuous assessment assignment, test or competitive examination are subject in principle to the disciplinary regime stipulated in Decree No. 92-657 of 13 July 1992.”

## Practical information on the Cadarache campus

### Access to the INSTN

INSTN / Bldg. 911 - CEA Cadarache  
13108 SAINT PAUL LEZ DURANCE cedex



## Transportation

### Coach service for CEA personnel

Free regular mass transportation for staff is provided via 32 coach lines based at the coach station at the CEA Centre; these lines serve most towns in the region. All coach schedules and itineraries (with their numerous stops) are available from the academic secretaries.

Towns served:

AIX EN PROVENCE  
AIX LES MILLES  
BARJOLS  
BOUC BEL AIR  
ÉGUILLES  
GRÉOUX - LES - BAINS  
LA MOTTE D'AIGUES  
LAMBESC  
LAURIS  
MANOSQUE  
MARSEILLE  
MEYRARGUES  
ORAISON  
PERTUIS  
PIERREVERT  
RIANS  
VENELLES  
VILLEUNEUVE

Staff are deposited at 8 am at the coach station where shuttle service is provided between the coach station and the INSTN (a 10-minute trip).

|          |  |
|----------|--|
| Morning: |  |
| 8:00 am  | CEA Coach station (take coach B for the INSTN)                         |
| 8:10 am  | Résidence Le Hameau -INSTN (stop in front of CEA reception, exit side) |

|          |   |
|----------|---|
| Midday:  |   |
| 11:40 am | (departure) INSTN => Restaurant 1 at CEA Centre |
| 12:50 pm | (return) Restaurant 1 (take coach G) => INSTN   |

|          |   |
|----------|---|
| Evening: |   |
| 4:15 pm  | INSTN => Résidence le Hameau* or coach station (terminus) |

\* There is a stop in front of the Résidence le Hameau: inform the driver if you plan to get off at this stop.

CEA staff coaches await you at the coach station for the destination of your choice: departure at 4:30 pm.

### Taxis

\* **Free CEA taxis service:** taxis provide shuttle service between the CEA Centre and the INSTN, from 8:30 am to 11:15 am and from 1:30 pm to 3:45 pm. For enquiries, please contact the central booking number at : 04 42 25 33 33

\* **Pay taxis** (excluding shuttles between INSTN and the CEA Centre):  
04 42 57 43 98 (rates negotiated by the CEA)

### Regional buses

There is shuttle service between Aix en Provence and St Paul Lez Durance  
Information at the Aix-en-Provence coach station: Tel: 0 811 880 113



## Special access procedures at Cadarache

Before the start of the school year, the academic secretaries collect the preliminary documents required to issue a badge for each student from the CEA.

The badge formalities are completed in two stages: the first day of the term, students must go to the reception area of the CEA Centre (the glass building located at the entrance to the centre).

- Génie Atomique (nuclear engineering) students go to the centre on their own, in groups determined beforehand by the academic secretary.
- BT and BTS students are accompanied by their academic secretary to the centre.

After students have presented their ID cards, a photo is taken for their badges.

While awaiting the final badge, students will be issued a temporary access authorisation valid for two weeks.

When the badges are ready (in about a week), the students will once again be asked to go to the reception area of the CEA Centre to receive their final badge.

Once again, they must bring their ID cards and temporary access authorisations with them.

## Accommodation

Students have the option of booking a furnished studio flat (type T1 or T1Bis) in the student residence hall "Le Hameau". The flat may be booked on a reservation form available on the INSTN website <http://www-instn.cea.fr> (under the heading "Vie pratique/Hébergement étudiant – Cadarache") (Practical life/Student Housing – Cadarache), which should be sent to:

**Mme GASPARINI**  
([m.gasparini@unicil.fr](mailto:m.gasparini@unicil.fr))  
HABITAT PLURIEL  
Résidence le HAMEAU  
13115 SAINT PAUL LEZ DURANCE  
Tél. : 04 42 57 43 83  
Fax. : 04 42 57 44 17

2009 rental rates for the available residential units :

|       |           |                   |
|-------|-----------|-------------------|
| T1    | 27.5 sg.m | €320.77 per month |
| T1Bis | 35.5 sg.m | €368.58 per month |
| T1Bis | 40.0 sg.m | €379.50 per month |

Including:

Water and electricity charges

Unlimited Internet access and telephone calls to fixed line numbers in France

Outdoor parking provided

You may apply for a housing allowance (Aide Personnalisée au Logement) (APL). Consult the website of the Caisse d'Allocations Familiales (Family Allowance Office) for further information: <http://www.caf.fr/wps/portal/>

## Guest house for students' families

Located at the confluence of the Verdon and Durance rivers in a magnificent verdant setting, Le Château comprises a main building called "Le Château" and several annexes (La Bergerie, La Ferme, La Fénière and La Bastide)

Single rooms, double rooms or connecting rooms are available for rental.

For booking, call 04 42 25 25 69

Accommodation capacity:

|                 |                |
|-----------------|----------------|
| At Le Château : | 16 guest rooms |
| At La Bastide : | 4 guest rooms  |
| At La Ferme :   | 24 guest rooms |

## Food service

The Cadarache CEA has:

- restaurants 1 and 2, which are operated as self-service cafeterias
- the restaurant at the Guest House "Le Château" (500 metres from the INSTN)

### Restaurants 1 and 2

Opening hours :

|  | Breakfast                   | Lunch                                  | Dinner                         |
|--|-----------------------------|--|--------------------------------|
| Monday through Friday                  | Restaurant 1<br>6:30 -10 am | Restaurant 1 et 2<br>11:15 am -1:45 pm | Restaurant 1<br>6:30 - 7:30 pm |
| Saturdays, Sundays and public holidays | No service                  | Restaurant 1<br>11:15 am - 1h45 pm     | Restaurant 1<br>6:30 - 7:30 pm |

To be admitted to the restaurants, you must present the non-transferable restaurant card provided by the academic secretary on registration day.

This card functions like a debit card; it must be reloaded with credit at the loading window.

Students benefit from category A (student) rates: €1.39 per meal (for 20 points)

If you lose or forget your non-transferable card, apply to the window where you will be issued a temporary card valid for one meal (specify category A).

### The guest house

The large dining hall located inside Le Château can accommodate 120 diners. The restaurant is open every day and evening from 12 noon to 3 pm and from 7 pm to 9 pm (except Friday evening). The price of meals ranges between €13 and €23.

## Teaching facilities

Attendance at courses is mandatory and they are generally held between 8:30 am and 4 pm. The INSTN is equipped with:

- an amphitheatre (with 242 seats)
- a computer room (5 workstations with Internet connection) and a printer is available for your use
- numerous classrooms, practical work rooms (Metrology, SIREP, SIPACT etc.) and simulator rooms (Apollo2, Cathare etc.) accommodating between 20 and 50 students
- a videoconference room
- a cafeteria for students and professors
- a scientific library, which is located at the Cadarache Centre in building 120: it offers computerised workstations allowing students to search and consult onsite 15,500 works classified according to topic. For additional information, consult the website: <http://www-ist.cea.fr>

These facilities are air conditioned and are all equipped with overhead projectors, video projectors and computers.

Certain platforms (the teaching reactor, accelerator etc.) are located on the premises of the Cadarache CEA Centre.

A photocopier is available for use by students in the lobby of the INSTN (a card should be requested from the registrar of each degree programme).

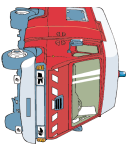
All of the INSTN's classrooms are accessible to the mobility-impaired.

## Safety regulations



### In case of an incident...

In case of an incident or accident, contact your course organiser



### To inform the Local Security Force (FLS)

First, try to inform an INSTN staff member, otherwise dial 04 42 25 22 18 or 22 18 on an internal CEA phone.

### In case of a fire alarm

(an internal building siren)

Evacuate the room via the closest exit.

Check that no-one is still inside the facility.

Close all exits.

Proceed to the assembly point at the entrance to building 911.

Wait and follow the instructions of INSTN personnel.



### In case of a nuclear accident alarm at the Cadarache Centre

(a variable frequency siren)

Remain in the room.

Close doors and windows.

Wait for instructions.



### Telephones

Card activated telephones and internal CEA phones (offering free calls on the premises of the CEA Centre) are located in the entrance lobby and the lower level

The following services are available at the centre :

#### **Scientific library**

Building 120

Opening hours: 8 am - 4:30 pm  
continuously (Monday through Friday)

<http://www-ist.cea.fr>

#### **Leisure library**

Located in restaurant 1

04 42 25 20 45

Opening hours: 11:45 am - 2:30 pm  
(Every day except Friday)

#### **CD/DVD loans**

DVD stand in restaurant 1:

Hours: 12:30 pm - 1:30 pm (on Wednesdays)

CD stand:

Opening hours: 12:20 pm - 1:20 pm (on Tuesdays)

#### **Photos**

Stand in restaurant 1

Opening hours: 12:15 pm - 1:15 pm (on Thursdays)

Call: 04 42 25 95 13

#### **Bank**

Located in restaurant 1

Banque BNP: 04 42 25 21 30

Teller windows and ATM

Opening hours: 9:00 am - 11:00 am / 12 noon - 5:30 pm

#### **Post Office**

Located in restaurant 1

Tel.: 04 42 25 60 76

Opening hours: 10:00 am - 11:15 am / 12 noon - 4 pm

## Cultural and athletic activities at Cadarache

Cards are issued every Wednesday during information sessions held from 12:30 pm to 1:30 pm – Restaurant 1 from September to June or via internal mail, by sending the documents designated below to:

**ACC - Secrétariat**  
Laurence ASPLANATO  
Bldg 103  
Tél. 04.42.25.26.74 Fax. 04.42.25.23.91

AIKIDO 2nd Tuesday  
ATHLETICS Thursday (1:00 pm to 1:30 pm)  
AVIATION 1st & 3rd Tuesday  
BIOENERGY start of season  
BODYBUILDING 1st Wednesday  
BOULES Wednesday  
CYCLE TOURING 1st and 3rd Monday  
DANCE Wednesday (12 noon to 1:00 pm)  
DIVING Thursday  
FOOTBALL Wednesday (12:30 pm to 1:00 pm)  
GOLF Monday  
HORSE-RIDING Tuesday(1:30 pm to 2:30 pm)  
HUNTING Friday  
JUDO start of season  
MOTORCYCLE TOURING Wednesday  
MOUNTAIN CLIMBING Tuesday (12:45 pm to 1:30 pm)  
ROWING 4th Thursday  
SAILING Thursday  
SKIING Thursday  
SQUASH 1st & 3rd Friday  
SURFBOARDING Thursday (12 noon to 1:00 pm)  
SWIMMING start of season  
TENNIS Monday  
TRAP-SHOOTING Thursday in season at the shooting range  
TRIATHLON Thursday  
YOGA start of season

**AQUARIUM CLUB** Monday at Restaurant 1

**ART BRICOLAGE**

Monday at Restaurant 1

Wednesday at Restaurant 2

Thursday in Building 171

**ASTRONOMY** 1st Tuesday Restaurant 1

**BILLIARDS** Monday at Restaurant 1

**CINEMA CHEQUES**

Tuesday at Restaurant 1

Thursday at Restaurant 2

**CINÉ-PHOTO** Thursday at Restaurant 2

**CULTURAL JOURNALS** Library Restaurant 1

**DISCOTHEQUE** Tuesday at Restaurant 1

**FILM CLUB - CINEMA A L'AFFICHE**

Tuesday at Restaurant 1

Thursday at Restaurant 2

**MEDIATHEQUE** Monday, Tuesday, Wed. and Thursday at Restaurant 2

**MUSICAD** 1st Friday at Restaurant 1

**OENOLOGY** Monday at Restaurant 1

**PHOTO PASSION** Thursday at Restaurant 1

**PHOTOGRAPHS** Thursday at Restaurant 1

**VIDEOTHEQUE** Monday and Friday at Restaurant 1



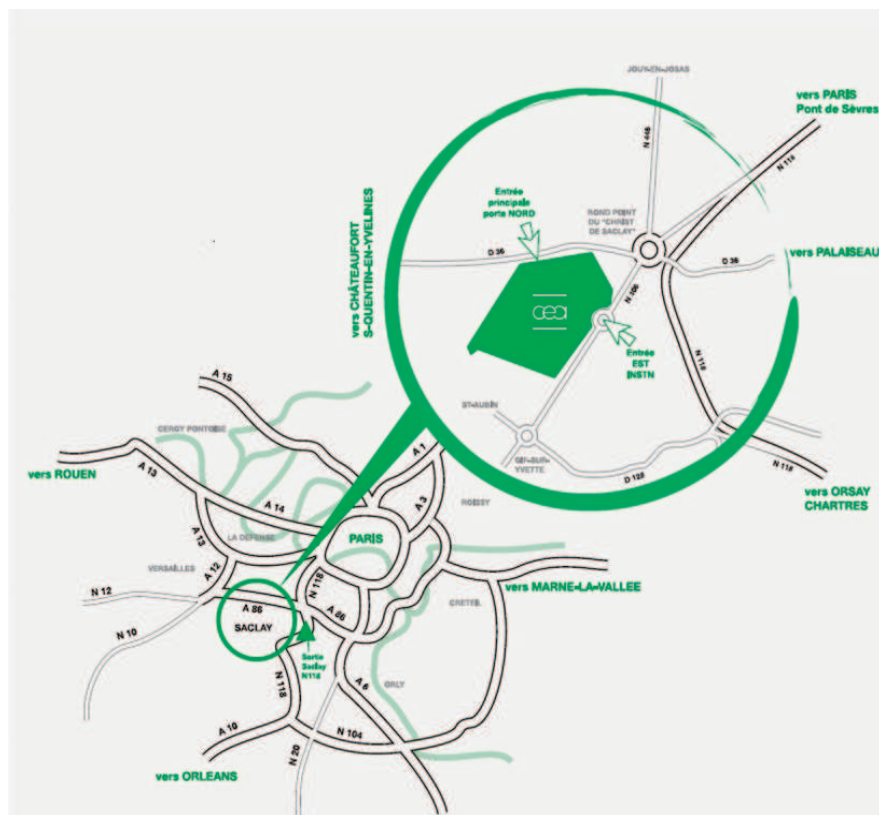
## Practical information on the Saclay campus

### Access to the INSTN

The INSTN is located about 25 km from Paris, just outside of the Saclay CEA Centre. The entrance to the Saclay Centre is located on trunk road N306 (direction "Saint Aubin/Gif-sur-Yvette/Chevreuse"), on the right-hand exit of a roundabout less than one kilometre from the "Christ de Saclay" roundabout. When entering the centre, take the first street on the left before the security station to reach the INSTN. Students must be in possession of their student cards, as well as proof of identity (national identity card or passport) to be prepared for any eventual security checks.

### **Address :**

INSTN / CEA Saclay - PC n°35  
91191 Gif sur Yvette cedex



## Transportation

### Coach service for CEA personnel and internal shuttles

Mass transportation for personnel is provided by 53 regular coach lines; these lines serve the various entrances to Paris and most municipalities of the Paris suburbs.

Staff are deposited at 8:30 am at the roundabout of trunk road N306 (East entrance) or within the CEA compound at the coach station where shuttles to the INSTN are available (a five minute trip). In the evening, these coaches can only be used when a course or session ends at 4:30 pm.

All coach schedules and itineraries are available from the academic secretaries.

### Special conditions of access to the Saclay coach station

Saclay students are not admitted to the Saclay centre (unless they request prior authorisation); they must therefore obtain a pass from their academic secretary in order to use the shuttles crossing the centre on their way to the coach station.

Your INSTN student card or green badge (for those who are not registered at the INSTN) authorises access to the Saclay centre coach station for the duration of the academic year.

This strictly personal card must be presented whenever requested by the security service and returned at the end of the year. If it is lost or stolen, please report this to the INSTN at the earliest opportunity.

This card is not a pass to enter the Saclay CEA.

### Public transportation

#### **Connections between Châtelet or Denfert-Rochereau and Saclay**

At the regional express train (RER) stations Châtelet or Denfert-Rochereau, take the RER B in the direction of "Saint-Rémy-lès-Chevreuse" to the "Le Guichet" station (a 45- to 60-minute trip). Then take coach No. 269-02 and get off at the stop "CEA Saclay" located on trunk road N306, 200 metres from the INSTN.

NOTE: On average, there is a coach every 15 minutes for departures from:

- \* Le Guichet between 7:30 am and 10:00 am
- \* CEA (RN306) between 4:30 pm and 8:00 pm

Link for line 269-02 schedules:

<http://www.saclay-scientipole.org/fr/06localisation/26902.pdf>

## Connections between the Massy-Palaiseau station and Saclay

At the Massy-Palaiseau station, take TransEssonne bus No. 91-06 and get off at the "CEA Saclay" stop located on trunk road N306 (about 20 minutes), 200 metres from the INSTN.

NOTE: this stop is not served at certain times. There is a coach every 5 to 10 minutes at the most.

Link for line 91-06 schedules: <http://www.albatrans.net/>

## Accommodation

### **Housing offers proposed by the CROUS of the Versailles education authority**

(Centre Régional des Œuvres Universitaires et Scolaires) (Regional student services centre)

Admission conditions and housing offers for the student residence halls of the Versailles

CROUS: <http://www.crous-versailles.fr/>

Important: Students must submit their applications as early as possible! Normal procedure involves completing an application on the Internet between 15 January and 30 April, even before you know in which establishment you will be registered.

In addition to its university residence halls, the CROUS of Versailles also offers private housing, which it inspects and approves. Consult the section "Autres moyens de logement" (Other types of housing) on its website.

### **Other offers**

#### **The Hébergeurs association :**

This association of Université Paris-Sud 11 is aimed at helping students and trainees find furnished accommodation with private parties, primarily in Orsay or Bures, but also in the surrounding towns served by regional express (RER) train lines B and C.

Université Paris Sud  
Le Moulin – Bldg. 311 - 91405 Orsay Cedex  
Tel.: 01 69 15 65 44 - 01 69 15 52 52  
E-mail: [heberjeunes.asso@u-psud.fr](mailto:heberjeunes.asso@u-psud.fr)

#### **Accommodation offers in private university residence halls :**

|  |  |
|--|--|
| <a href="http://www.adele.org">www.adele.org</a>                   | <a href="http://www.annonceetudiant.com">www.annonceetudiant.com</a>   |
| <a href="http://www.estudines.com">www.estudines.com</a>           | <a href="http://www.location-etudiant.fr">www.location-etudiant.fr</a> |
| <a href="http://www.fac-habitat.com">www.fac-habitat.com</a>       | <a href="http://www.mapiaule.com">www.mapiaule.com</a>                 |
| <a href="http://www.lamyresidences.com">www.lamyresidences.com</a> | <a href="http://www.studelires.com">www.studelires.com</a>             |
| <a href="http://www.le-sle.com">www.le-sle.com</a>                 |  |

#### **Direct ads for flat-sharing :**

|  |  |
|--|--|
| <a href="http://www.capcampus.com">www.capcampus.com</a> | <a href="http://www.kel-koloc.com">www.kel-koloc.com</a> |
|--|--|

#### **Other addresses :**

[www.letudiant.fr](http://www.letudiant.fr) under the heading "Vie étudiante" (Student life)

#### **Information websites:**

[www.aidologement.fr](http://www.aidologement.fr) (for all types of aid)

[www.anil.org](http://www.anil.org) (National housing information agency)

## Food service

Students are entitled to a cafeteria card at a reduced rate (Rate G – €1.39 per meal, or 20 points) for lunch at restaurant 2 for staff of the Saclay CEA. This card can be picked up at the GAF from:

**Mrs Delahaye Chantal, building 399, room 213**

by leaving a deposit in the form of a cheque for €10 payable to the CEA-Saclay or cash payment in the exact amount (since there is no cashdesk).

1

This card functions like a debit card. It must be provisioned with credit at the check-out desk located in the dining hall near the cafeteria before the first meal. Provisioning may be done by cheque, bank card or cash.

2

If you should lose your cafeteria card, report its loss immediately to Mrs Delahaye Chantal at 01 69 08 35 36, so she can cancel it. A new card – financed by your deposit – will be prepared and credited with the remaining balance on the lost card.

3

Before you leave for your internship, you must come retrieve your deposit cheque; you should bring your card and your receipt for the day's meal. Make sure to use up your balance, because no refunds will be made.

### Useful information :

- If you forget your personal meal card, you can request a temporary card at the same check-out desk; it is valid for one meal (indicate category G, which is the student rate).
- If you use the card twice on the same day, you will be billed the second time around for the maximum amount of €6.00.

### A word to the wise:

A card provisioned for several meals will allow you to avoid queues at the check-out desk.

## Teaching facilities

Courses are generally held from 9:00 am to 4:30 pm. The Saclay INSTN is equipped with:

- \* an amphitheatre (seating 310)
- \* a video room (seating 40)
- \* computer rooms (details are provided below)
- \* numerous classrooms (seating 20 - 120 students).

These facilities are air conditioned and are all equipped with video projectors and computers.

### Wi-Fi terminals :

The INSTN is equipped with Wi-Fi terminals. To connect, simply ask the academic secretary for an ID and password.

### Computer rooms :

Computer rooms are for use by students enrolled at the INSTN. The occupancy schedule is posted on the door of the room. It is strictly prohibited to enter a room

|                                  |             |          |
|----------------------------------|-------------|----------|
| <b>Room 145 (Blaise Pascal)</b>  |             |          |
| until 4:30 pm (dual boot)        | 9 stations  | 19 pers. |
| <b>Room 146 (George Boole)</b>   |             |          |
| until 7:30 pm (Windows)          | 12 stations | 25 pers. |
| <b>Room 147 (Claude Shannon)</b> |             |          |
| until 4:30 pm (dual boot)        | 9 stations  | 19 pers. |
| <b>Room 148 (Alain Turing)</b>   |             |          |
| until 7:30 pm (dual boot)        | 12 stations | 25 pers. |

Safety and usage regulations are described in the documents provided to each user.

Manager: Franck Jedrzejewski - Tel.: 01 69 08 88 95

## Safety regulations

### FIRE



### ACCIDENT



### INCIDENT



### ILLNESS



#### ALERT EMERGENCY SERVICES – FLS (LOCAL SECURITY FORCE)



RED WALL  
PHONES  
(in the corridors)



01 69 08 22 24



18  
or  
22 24

**AND/OR QUICKLY INFORM AN INSTN STAFF MEMBER (ORGANISER,  
ACADEMIC DIRECTOR ETC.)**

**OF ANY MEASURES ALREADY TAKEN**

### GENERAL PROCEDURES IN CASE OF FIRE

1. Listen to the messages transmitted over the loudspeakers and follow all instructions provided
2. Take your personal effects (bags and coats) before leaving
3. Close the room's windows and doors
4. Calmly evacuate the building via the nearest emergency exits:  
AVOIDING SMOKE AND FUMES  
DO NOT USE THE LIFTS
5. Never retrace your steps unless asked to do so by someone in authority
6. Congregate at the outdoor assembly point which will be indicated to you by persons wearing yellow armbands; do not block access by emergency teams

## Technical and scientific information

### The IST portal

The CEA's IST (Information Scientifique et Technique) portal is a research support tool.

The IST portal can be accessed via the computers in the computer rooms. The access procedures are explained in a specific document concerning the use of these rooms.

This portal is intended for the entire CEA. It provides quick access to all documentary resources (journals, articles, books, reports, theses, patents, databases etc.) available at the CEA.

The portal offers access to the CEA's various IST facilities, most notably the libraries of the other centres. It provides centralised access and allows users to view the databases and journals purchased by the CEA online.

**La bibliothèque scientifique et technique** (The Scientific and Technical Library)

The CEA/Saclay library, which is associated with the Bibliothèque Nationale de France, has the largest documentary collection at doctoral and post-doctoral level in France related to the fields of nuclear science and technology (approximately 85000 books, 3500 collections of periodicals and 850000 technical reports and theses).

To use the library at the centre, students are required to file an "avis de rendez-vous" (notice of appointment). They should simply ring the library's reception desk at: 01 69 08 26 60 (building 526), and the required procedure will be explained to them.

## Conferences and events

A schedule of events is posted on the INSTN website: <http://www-instn.cea.fr/>

### Scientific websites aimed at the general public

<http://www.cybersciences.com>: scientific information for all.

<http://www.sciences-en-ligne.com>: the website of Éditions de l'Analogie, which publishes a dictionary of sciences and techniques

<http://www.laradioactivite.com>

<http://www.futura-sciences.com>: a site aimed at promoting science on the Internet.

<http://www.palais-decouverte.fr/menuinfo.htm>: The "science news" site of the Palais de la Découverte

### Conferences and tours at Cadarache

#### **Les Matinées de Cadarache** (Cadarache morning lecture series)

The Matinées de Cadarache are held from 11 am to 12:45 pm in the assembly hall of building 151. Their purpose is to present recent scientific and technical developments to the personnel of the Cadarache Centre.

#### **LABOS à la loupe** (LABS under the magnifying glass)

The Technical Support Units offer numerous tours of the facilities at the Cadarache CEA centre.

Information about each of the special days, conferences and events programmed at the Cadarache Centre or the INSTN will be posted in classrooms or the student cafeteria or distributed via e-mail as soon as it is received.

For all information concerning these events, please contact:  
Christine Miragaya - Tel: 04 42 25 28 43

In addition, numerous tours have been programmed throughout the school year by the INSTN (tours of the Cadarache Centre's technical installations, as well as tours of EDF, Areva, the SNA submarine at Toulon, etc.).

## The Cyclope conferences at Saclay



Recent scientific and technical developments presented to the general public.

Each quarter, the Saclay CEA Centre offers one or two "Cyclope" conferences. Open to all, these free conferences moderated by journalist Fabienne Chauvière feature a researcher or a project director who deals with a topic or presents a major piece of equipment related to research being conducted at Saclay.

Organisation/Information:

These conferences begin at 8:00 pm at the Saclay INSTN

Contact:

Saclay CEA Centre's Communications and Public Affairs Unit

Tel.: 01 69 08 52 10

### Websites of associations of former graduates

Groupe des Ingénieurs en Génie Atomique (Nuclear Engineers Group)

<http://www.giga-asso.com/>

Association pour les Techniques et les Sciences de Radioprotection (Association for Radioprotection Techniques and Sciences)

<http://www.atsrri.asso.com>





Commissariat à l'Energie Atomique  
Centre de Saclay - INSTN  
Point Courrier n° 35  
91191 Gif sur Yvette Cedex



crédits photos : L. Godard/CEA

Institut National des Sciences et Techniques Nucléaires