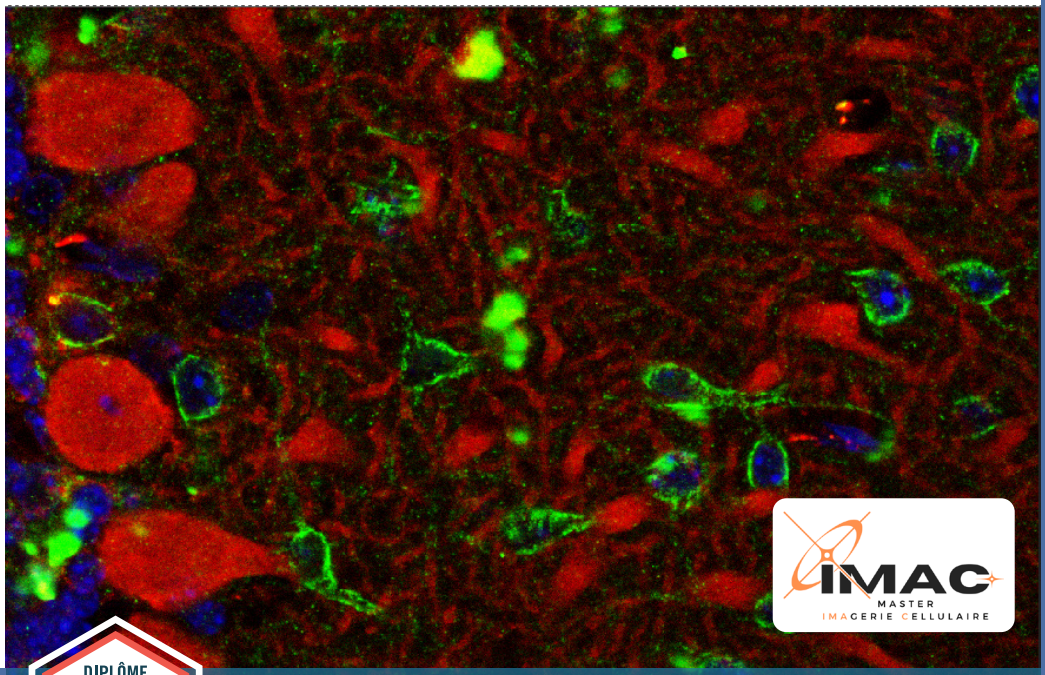
UNIVERSITÉ DE ROUEN NORMANDIE

Normandie Université



IMAC MASTER IMAGERIE CELLULAIRE

DIPLÔME NATIONAL DE MASTER CONTRÔLÉ PAR L'ÉTAT

MASTER

HEALTH ENGINEERING

Cell Imaging

Course language : French/English

in collaboration with PRIMACEN

Formation accessible en :

- [x] FORMATION INITIALE
- [ ] FORMATION EN ALTERNANCE
- [ ] ENSEIGNEMENT À DISTANCE
- [x] FORMATION CONTINUE

Campus Mont-Saint-Aignan

sciences-techniques.univ-rouen.fr

UFR Sciences et Techniques

EDUCATIONAL GOALS

Multidisciplinary knowledge

High technologies in cell imaging,
Cell biology,
Physics applied to imaging,
Image processing.

Professional training

30% practical work,
Tuition provided by professional speakers and experts Learning situations,
Two internships.

Transversal skills

Sales and marketing,
Law and company management,
Project management,
Communication (French & English).

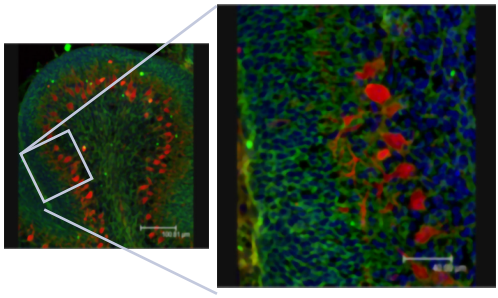
LEARNING ENVIRONMENT

High spec resources

PRIMACEN, Normandy's research and cell imaging facility,
Expert academic staff and imaging professionals,
Certifications and labwork with the facility's equipment.

An evolving sector for

Imaging facilities,
Imaging tools and applications,
Image analysis solutions.



COURSE ORGANIZATION

The Master Degree in Cell Imaging is a 2-year course built on scientific, technical and general education. The course includes extensive hands-on experience (internships with a 8-month minimum total duration + intensive lab work) and thorough academic knowledge:

Year 1:

Semester 1: Expert knowledge in cell biology

Semester 2: Dedicated biology and imaging modules + a 2-month internship

Year 2:

Semester 1: Imaging modules + business components to join a competitive imaging market place

Semester 2: 6-month internship

COURSE LANGUAGE: French/English

DURATION: 2 years

ENTRY REQUIREMENTS:
Admission linked to curriculum and motivation.

Year 1 (Master 1)
Holders of a Bachelor's degree in cell biology, biochemistry or international equivalent.

Year 2 (Master 2)
Holders of a Master 1 or Master 2 in cell biology or physics, with additional experience in cell imaging.

NUMBER OF STUDENTS: M1 : 12 / M2 : 14

WHEN TO APPLY:
Via MonMaster :
Main application : February- March.
Complementary phase (depending on places available): June.
Via CampusFrance : From January to March

START DATE: September

Tuition exclusively provided by lecturers, researchers, engineers and consultants working with the imaging platform

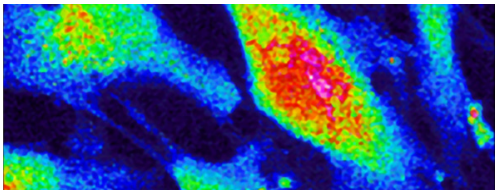
MASTER DEGREE IN CELL IMAGING

M1

- **Cell Imaging** (50%)
  Upgrade in mathematics and physics
  Complementary approaches in cell imaging
  Technologies in cell imaging
- **Biology** (25%)
  Biostatistics
  Biomembranes and signaling
- **Transversal skills** (25%)
  English
  Communication and business knowledge
  Platform management
- **Compulsory internship** (8 weeks)

M2

- **Cell Imaging** (75%)
  High spec technologies in cell imaging
  Programming and image processing
  Lasers and detectors
  Quality assessment of imaging systems
  Semester project
- **Transversal skills** (25%)
  International communication
  Law and company management
  Sales and marketing
- **Compulsory internship** (6 months)



EMPLOYABILITY

95% of graduate employment

A booming market

A reference course for recruiters :

Leica, Nikon, Zeiss, Olympus, Alphelys, ... and numerous institutional and research facilities

CAREER PROSPECTS

Upon successful completion of this course, the student will be able to apply for a position as a :

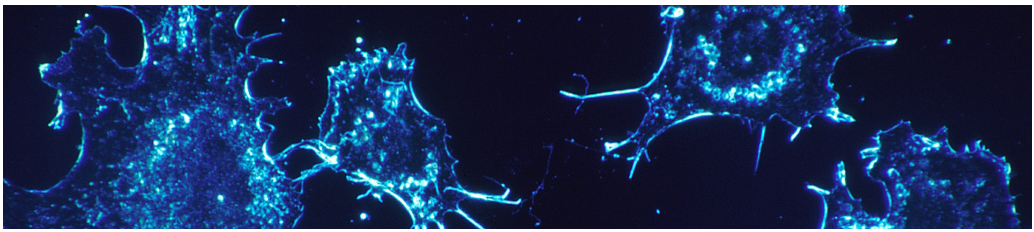
Sales/applications engineer in companies specializing in imaging equipment and the related products (sales, client relationship and technical support)

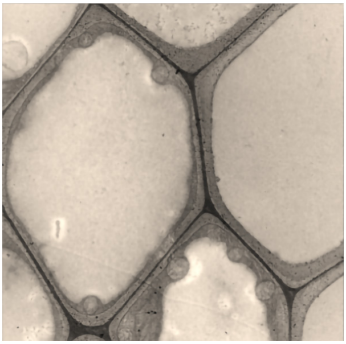
Technical engineer in academic research laboratories, imaging facilities or industries (scientific and technical expertise in biological research, management of imaging equipment, set-up and maintenance)

Service engineer

- In academia or service companies (maintenance organization, liaising tasks with providers and contract managers, technical staff training).
- For imaging manufacturers (operational maintenance of medical devices).

PhD





CONTACT CFCA

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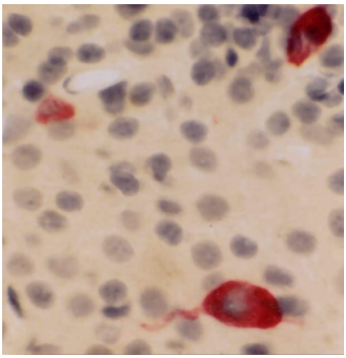

COURSE DIRECTORS

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