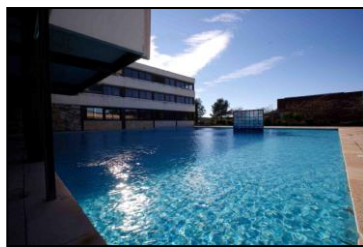


2 Master Internships followed by 2 PhD Positions in Medical Image Analysis and Biophysical Simulation

[Inria](#) is the French Institute for **Research In Computer Science and Applied Mathematics**. It has a workforce of 4000 people working in eight research centres in France. The positions are proposed in the [Asclepios research team](#) of [INRIA Sophia Antipolis - Méditerranée](#) located on the French Riviera. This centre counts about 600 people and 40 research teams.



The [Asclepios](#) research team addresses a focused set of research topics in Medical Image Analysis and Simulation. The team counts about 30 scientists, including about 15 PhD students.

Research Topics

The 2 Master and PhD positions are mainly funded by a prestigious grant of the **European Research Council (advanced grant MedYMA)**. They address the biophysical **analysis** and **simulation** of the medical images of a range of

- **brain diseases** (including Alzheimer's disease and brain tumours)
- **cardiac diseases** (including electrical and mechanical dysfunctions).

A good illustration of the research topics can be found in French and English on the web site of the College de France <http://www.college-de-france.fr/site/en-nicholas-ayache/>

Requirements (depending on the topic)

- MSc in computer science or applied mathematics
- Good knowledge of 3D image processing and applied mathematics required
- Fluent in English (Reading, Writing, Speaking)
- C++, Matlab

Practical Information

A master internship can receive during 6 months a gross remuneration of 1445 Euros/month (net is about 1182 Euros). Each master internship can be followed by a 3-year PhD contract with a gross remuneration of about 2000 Euros/month (net is about 1600 Euros).

Contact Information

Please send a CV, referees coordinates and a motivation letter to Nicholas.Ayache@inria.fr & copy to Herve.Delingette@inria.fr, Xavier.Pennec@inria.fr, Maxime.Sermesant@inria.fr.