

## Job Offer

# Post-doc position in cell biology / cardiovascular diseases

### Job Profile

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#### Offer description

The candidate will join the research group working pursuing a translational research program on “cardiac valve diseases” at the *institut du thorax* (INSERM, CNRS, Nantes University, Nantes, France; <https://umr1087.univ-nantes.fr/research/research-teams/genetics-and-pathophysiology-of-cardiac-valve-dystrophy>). The *institut du thorax* is a public expert center dedicated to translational research (from bench to bedside) focused on the pathophysiology of cardiovascular, respiratory and metabolic diseases. We are looking for a highly motivated post-doc with understanding and expertise in cell biology, biochemistry and molecular analyses to unravel the molecular mechanisms leading to cardiac valve diseases. The research program is currently funded by French National Research Agency and European grants, and is carried out in close collaboration with teams from France, Europe and North America. The candidate will benefit from technical support from the team to establish himself as an associated researcher and open up longer-term research perspectives in the laboratory.

#### Researcher profiles

- First-Stage Researcher (*PhD candidate*)
- Recognized Researcher (*with less than 4 years research experience after PhD*)
- Established Researcher (*with more than 4 years research experience*)
- Leading Researcher

#### Research Fields (2 max.)

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Biological Sciences | <input type="checkbox"/> Medical Sciences         |
| <input type="checkbox"/> Chemistry                      | <input type="checkbox"/> Neurosciences            |
| <input type="checkbox"/> Computer Science               | <input type="checkbox"/> Pharmacological Sciences |
| <input type="checkbox"/> Engineering                    | <input type="checkbox"/> Physics                  |
| <input type="checkbox"/> Environmental Science          | <input type="checkbox"/> Technology               |
| <input type="checkbox"/> Ethics in Health Sciences      | <input type="checkbox"/> Other (specify):         |

#### Main Activities

- Development of cutting-edge *in vitro* models (cell line; 3D primary cell culture from human and animal models; hiPSC)
- Functional investigations linked to cardiovascular physiology (hemodynamic and mechanical stress).
- Molecular and biochemistry experiments

#### Associated Activities

- Training and mentoring undergraduate and graduate students (Master and PhD)
- Grant writing

#### Specific Requirements or Constraints

- Work in a confined environment (culture room and animal care facility)

#### Skills/Qualifications

- Competences in *in vitro* modeling, including cell lines, primary cell culture and/or hiPSC

- Expertise in molecular biology and biochemistry (qPCR, western blot, cell imaging)
- Desired experience in bioanalysis of RNAseq and single cell RNAseq
- Certification for animal experimentations
- Autonomy and communication skills to work in an interdisciplinary team

**Required Experience**  0 to 2 years  2 to 4 years  4 to 10 years  >10 years

**Fields:** cardiovascular diseases, cell biology

**Required Education Level or Diploma**

- PhD degree

**Required Languages**

- English

### Hosting Unit

<b>Code</b>	UMR 1087
<b>Name</b>	The research unit of <i>l'institut du thorax</i>
<b>Director</b>	Richard Redon
<b>Composition</b>	195 persons
<b>Address</b>	8 quai Moncousu, 44000 Nantes, France
<b>Website</b>	<a href="https://umr1087.univ-nantes.fr/">https://umr1087.univ-nantes.fr/</a>

### Contract

<b>Type</b>	Fixed term contract
<b>Duration</b>	24 months (renewable)
<b>Salary</b>	Upon experience and according to INSERM salary standards
<b>Envisaged Start Date</b>	June - October 2024

## Application

**Applicants must send a CV, a cover letter, and two professional reference letters to Romain Capoulade**

**Contact (name, telephone/mail):**

Romain Capoulade

+33 2 28 08 01 09

[romain.capoulade@univ-nantes.fr](mailto:romain.capoulade@univ-nantes.fr)

**Deadline for application:** May 1, 2024