

The mission of the Catalan Institute of Nanoscience and Nanotechnology (ICN2) is to achieve the highest level of scientific and technological excellence in Nanoscience and Nanotechnology. Its research lines focus on the newly-discovered physical and chemical properties that arise from the behaviour of matter at the nanoscale. ICN2 has been awarded with the Severo Ochoa Center of Excellence distinction for three consecutive periods (2014-2018 and 2018-2022 and 2023-2026). ICN2 comprises 19 Research Groups, 7 Technical Development and Support Units and Facilities, and 2 Research Platforms, covering different areas of nanoscience and nanotechnology.

**Job Title: Machine Learning Engineer**

**Research area or group: Research Support Facilities**

**Description of Group/Project:**

The machine learning engineer will be hired within the Severo Ochoa Center of Excellence grant.

**Main Tasks and responsibilities:**

The Machine Learning engineer will have the following responsibilities:

- Lead the design and implementation of the ICN2 AI/ML strategy, including the computational infrastructure for AI and ML within ICN2.
- Lead a contribute to the design and development of AI/ML algorithms and applications to tackle research-oriented problems at ICN2, in collaboration with ICN2 scientist.
- Create and extend existing AI/ML libraries and frameworks.
- Collaborate in the creation of ML/AI training content.
- Train and monitor AI/ML systems and models.
- Support for competitive computational resources for ICN2.
- Remaining up to date on the latest innovations in AI/ML.
- Manage resources and personnel within the AI team at ICN2

**Requirements:**

- **Education:** Engineer or similar STEM career
- **Knowledge and Professional Experience:**  
In-depth knowledge of ML data structures and modelling, software architecture, libraries and frameworks; the ML engineer requires extensive experience in Python programming, coupled with knowledge of machine learning and AI methods, including their deployment in popular Python libraries such as Scikit-Learn, TensorFlow, Pandas, and Keras.  
Creative thinking skills to come up with new solutions and approaches  
Effective oral and written communication skills in English
- **Personal Competences:**  
Proven experience with interdisciplinary teams will be positively evaluated.  
Proven team management skills  
Good communication skills  
Strategic thinking

### Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: Temporary (until 31/12/2026)
- Location: Bellaterra (Barcelona)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: as soon as possible

### How to apply:

All applications must be made via the ICN2 website <https://jobs.icn2.cat/job-openings/683/machine-learning-engineer> and include the following:

1. A cover letter.
2. A full CV including contact details.
3. 2 Reference letters or referee contacts.

Deadline for applications: 5 December 2024

### Equal opportunities:

ICN2 is an equal opportunity employer committed to diversity and inclusion of people with disabilities.

ICN2 is following the procedure for contract of people with disabilities according with article 59 of the Royal Decree 1/2015, of 30 of October.