SPECULATIVE APPLICATIONS (Ref: 2022-01)

IMDEA Nanociencia is open to receiving applications from highly motivated individuals to contribute to the next phase of active growth offering positions associated with the Severo Ochoa Programme (2022-2025), whose mission is to develop high quality interdisciplinary research in the frontiers of Nanoscience within our strategic areas.

- **P1** Nanotechnology for energy harvesting
- **P2** Quantum materials at the nanoscale
- **P3** Nanotechnology for healthcare
- **P4** Nanomagnetism for Information and Communication Technologies
- **P5** Ultrafast phenomena at the nanoscale
- **P6**: Nanotechnology for Critical Raw Materials and Sustainability

**Requirements:**
Candidates may be of any nationality. No age restrictions apply.

Applicants must be able to communicate fluently in English

Specific requirements are outlined in the position descriptions (See below)

**Benefits:**
We offer a work contract in accordance to current Spanish labour laws and gross salary will be according to standard regulation at IMDEA Nanociencia.

Moving allowance for those candidates that move from foreign research institutions (to be reimbursed partially in the case that the stay is less than one year).

**Eligibility and Evaluation Criteria**
The individual evaluation of the applications will be accomplished on the basis of the experience of the candidate and the position description (see below).

**Evaluation and Selection Procedure**
- Applicants will receive an automatic response as acknowledgement of receipt of their application.
- If the application is chosen for evaluation the candidate will be informed.
- A Scientific Committee will pre-evaluate the applications and pass a short list of possible candidates to the Selection Committee composed by the Scientific Director, the responsible of each of the six SO strategic areas, three Deputy Directors, and chaired by the Director of the Institute. In the case of PhDs the PI, the director of the corresponding area and the Director of the Institute will select candidates based on their application documents, including references.
- The Selection Committee will decide whether the candidate is promoted to the second evaluation phase, an interview (online/in-person) which will provide the final ranking of candidates.
- Funded applications will be identified at this point and published on the IMDEA Nanociencia web page.

**Deadline:** A rolling call, with periodic deadlines, is always open for candidates wishing to apply to a position at IMDEA Nano. Targeted calls will also be opened for specific positions, candidates applying to these rolling calls will also be considered for the specific targeted calls for which they are eligible.
RESEARCHER (Ref 2022-01-1)

Applications are welcome from candidates looking to carry out research in collaboration with any of the interdisciplinary SO research programmes outlined above. We are looking for ambitious researchers with an innovative research area at the frontier of Nanotechnology and Nanoscience.

Requirements:

Applications must hold a PhD in STEM disciplines and have at least 5 years of postdoctoral research experience. They must have a track record of independent research relevant to their career stage.

Eligibility and Evaluation Criteria:

The individual evaluation of the applications will be accomplished on the basis of two criteria:

- **Scientific Excellence.** Curriculum Vitae of the candidate, including publications and participation in research projects, originality, interdisciplinary of the research project proposal and quality of the motivation letter will be evaluated.
- **Implementation.** Feasibility of the expected research, and adequacy of the existing/planned infrastructure at IMDEA Nano to carry out the research of the proposal will be considered.

How to Apply:

Applicants should send a single document (pdf format) containing the following:

- Motivation Letter (max. 1 page)
- Curriculum Vitae (max. 3 pages), this should include five relevant papers and the names of three potential referees.
- Research Area Proposal (max. 2 pages)

This information can be uploaded at the following link.

SPECIFIC POSITIONS

- Senior Researcher in Ultrafast, time-resolved, spectroscopic/structural techniques (Ref 2022-01-11)
- Senior Researcher in Spin and Angle resolved Photoemission Spectroscopy (Ref 2022-01-12)
- Senior Researcher in Microscopy and Spectroscopy in Quantum Materials (Ref 2022-01-13)
- Researcher in Nanotechnology for Critical Raw Materials (Ref 2022-01-14)
• **Senior Researcher in Ultrafast, time-resolved, spectroscopic/structural techniques (Ref 2022-01-11)**
  - Applicants should have a Ph. D. in Physics, Chemistry or Engineering.
  - The candidate is expected to have a solid research background in Ultrafast, time-resolved, spectroscopic/structural techniques.
  - The candidate must also have the capability to lead his/her own research team and a strong track record of major external funding.
  - Experience in technology transfer to industry is appreciated.
  - A good command of English is required.

• **Senior Researcher in Spin and Angle resolved Photoemission Spectroscopy (Ref 2022-01-12)**
  - Applicants should have a Ph. D. in Physics, Chemistry or Engineering. The candidate is expected to have a solid research background in Spin and Angle resolved Photoemission Spectroscopy.
  - The candidate must also have the capability to lead his/her own research team and a strong track record of major external funding.
  - Experience in technology transfer to industry is appreciated.
  - A good command of English is required.

• **Senior Researcher in Microscopy and Spectroscopy in Quantum Materials (Ref 2022-01-13)**
  - Applicants should have a Ph. D. in Physics, Chemistry or Engineering. The candidate is expected to have a solid research background in Microscopy and Spectroscopy in Quantum Materials.
  - The candidate must also have the capability to lead his/her own research team and a strong track record of major external funding.
  - Experience in technology transfer to industry is appreciated.
  - A good command of English is required.

• **Researcher in Nanotechnology for Critical Raw Materials (Ref 2022-01-14)**
  - Applicants should have a PhD in Physics or Engineering and a postdoctoral experience, with a strong publication record and a demonstrated ability to carry out research independently and within a team.
  - The candidate is expected to have a solid research background in Nanotechnology and the capability to join existing teams.
  - A good command of English is required.

Applicants should send a single document (pdf format) containing the following:
- Motivation Letter (max. 1 page)
- Curriculum Vitae (max. 3 pages), this should include five relevant papers and the names of three potential referees.
- Research Area Proposal (max. 2 pages)

This information can be uploaded at the following [link](#).
POSTDOCTORAL RESEARCHER (Ref 2022-01-2)

Applications are welcome from candidates looking to carry out postdoctoral research in any of the interdisciplinary SO research programmes outlined above. We aim at boosting the research careers of talented researchers offering them an innovative, intersectoral, and truly interdisciplinary training in Nanoscience and Nanotechnology.

Requirements:

Applicants must hold a PhD in STEM disciplines gained in the previous four years - at the date of application (with exceptions for career breaks).

Eligibility and Evaluation Criteria:

The individual evaluation of the applications will be accomplished on the basis of two criteria:

- **Scientific Excellence.** Curriculum Vitae of the candidate, including publications and participation in research projects, originality, interdisciplinary of the research project proposal and quality of the motivation letter will be evaluated.
- **Implementation.** Feasibility of the expected research and project plan and adequacy of the existing/planned infrastructure at IMDEA Nano to carry out the research of the proposal will be considered.

How to Apply:

Applicants should send a single document (pdf format) containing the following:

- **Motivation Letter (max. 1 page)** – this should include a potential hosting group.
- **Curriculum Vitae (max. 3 pages)**, this should include five relevant scientific achievements and names of two potential referees.
- **Research Project Proposal (max. 1 page)**

This information can be uploaded at the following link.
PhD RESEARCHER (Ref 2022-01-3)

Applications are welcome from candidates looking to carry out PhD studies in any of the interdisciplinary SO research programmes outlined above. We aim at boosting the research careers of talented students offering them an innovative, intersectoral, and truly interdisciplinary training in Nanoscience and Nanotechnology.

Requirements:

Applicants must have completed their master degree courses in chemistry, physics, biology, engineering or related discipline in the 2020-2022.

Eligibility and Evaluation Criteria:

The individual evaluation of the applications will be accomplished on the basis of two criteria:

- **Curriculum Vitae:** Academic results, which include the academic transcripts, and research experience, including participation in research projects (final year projects, placements), will be evaluated. Transferable skills, mobility and experience in the industrial sector will be regarded as valuable contributions.

- **Quality of the motivation letter:** detailing the research interests.

How to Apply:

Applicants should send a single document (pdf format) containing the following:

- Motivation Letter (max. 1 page)
- Curriculum Vitae (max. 2 pages), this should include five relevant scientific achievements and names of two potential referees.

This information can be uploaded at the following link.
TECHNICIAN (Ref 2022-01-4)

Applications are welcome from candidates looking to support the interdisciplinary research carried out at the centre. We offer talented an innovative, intersectoral, and truly interdisciplinary training in Nanoscience and Nanotechnology technical support.

Requirements:

Applicants must have minimum FPI level in a STEM related discipline.

Eligibility and Evaluation Criteria:

The individual evaluation of the applications will be accomplished on the basis of two criteria:

Curriculum Vitae: Professional background and research experience. Transferable skills, mobility and experience in the industrial sector will be regarded as valuable contributions.

Quality of the motivation letter: detailing the scientific interests.

How to Apply:

The applicants should send a single document (pdf format) containing the following

- Motivation Letter (max. 1 pages)
- Curriculum Vitae (max. 3 pages), this should include five relevant scientific achievements and names of two potential referees.

This information can be uploaded at the following link.