

13 PhD Student Positions within EU MSCA-ITN-ETN NewFrac

Where to apply

Application Deadline: 30/06/2020 12:36 - Europe/Athens

Contact Details

Where to send your application.

COMPANY

NEWFRAC

WEBSITE

https://www.newfrac.eu/phd-positions/overview

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY

COUNTRY

NEWFRAC

Spain

DEPARTMENT

POSTAL CODE

Escuela Técnica Superior de Ingeniería

41092

ORGANISATION TYPE

Higher Education Institute

Amárica Mar

STREET

Américo Vespucio, s/n

WEBSITE

http://www.sacsis.es

ORGANISATION/COMPANY

NEWFRAC

RESEARCH FIELD

Engineering > Materials engineering

Engineering > Mechanical engineering

RESEARCHER PROFILE

First Stage Researcher (R1)

APPLICATION DEADLINE

30/06/2020 12:36 - Europe/Athens

LOCATION

Spain > Sevilla

TYPE OF CONTRACT

Temporary

JOB STATUS

Full-time

HOURS PER WEEK

37.5

OFFER STARTING DATE

01/11/2020

EU RESEARCH FRAMEWORK PROGRAMME

H2020 / Marie Skłodowska-Curie Actions

REFERENCE NUMBER

NEWFRAC

MARIE CURIE GRANT AGREEMENT NUMBER

861061

The Marie Skłodowska-Curie European Training Network "NEWFRAC" (www.newfrac.eu) offers 13 PhD positions for early stage researchers. The duration of the appointment is 36 months, full-time employment contract.

"NEWFRAC" (www.newfrac.eu) is a high-level training of a new generation of creative, entrepreneurial and innovative early-stage researchers (ESRs) through the development and engineering applications of a new modeling framework focused on the prediction and analysis of

multi-field fracture phenomena in heterogeneous engineering systems at different scales. NEWFRAC in its mission of training students capable of solving the current problems of multi-field fracture phenomena in heterogeneous engineering systems, offers 13 PhD positions for early stage researchers (ESRs) distributed in a network of 4 European countries (France, Germany, Italy and Spain) and two countries associated (Israel and Switzerland), with the participation of prestigious academic and industrial institutions that will allow researchers to grow and develop their technical skills in a multisectoral environment.

Besides working on their project at their home institutions, the researchers will participate in network-wide training events like summer schools. Moreover, they will conduct secondments at other network partners combining academic and industrial experiences.

A list of the currently available 11 PhD positions /ESR Projects is presented below. To apply to a specific position/project, click on the title and follow the instructions.

The application & selection process might be proper to each organisation, please visit our website and verify the application procedure and deadlines for the position you are interested in:

https://www.newfrac.eu/phd-positions/overview

List of currently available PhD / ESR positions (+ host institutions and supervisors):

ESR1: Total energy minimization with stress conditions for mixed mode fracture in anisotropic heterogeneous materials and structures

Universidad de Sevilla (Spain)

ESR2: Toughening composites by micro and meso structural optimization

Universidad de Sevilla (Spain)

ESR3: Fracture analysis of advanced layered ceramics

Sorbonne Université (France)

ESR4: Fracture of LFRP ultra-thin ply laminates in aeronautical applications
Univrsidade do Porto, (Portugal)

ESR5: Nucleation and propagation of compressive cracks

Sorbonne Université (France)

ESR6: Multiscale modeling of fracture processes in injection molded SFRPs

Robert Bosch GmbH (Germany)

ESR7: Debonding of the reinforcement in LFRP and FRCM externally strengthened beams

Politecnico di Torino (Italy)

ESR8: Fracture in biological anisotropic hard tissues (human bones)

Tel-Aviv University (Israel)

ESR9: Multi-field and multi-scale modeling of fracture for renewable energy applications **IMT School for Advanced Studies (Italy)**

ESR10: PF modeling of fracture in the human femur

ETH (Switzerland)

ESR11: Analysis of the failure mechanisms associated to the unfolding failure in CFRP profiles

FIDAMC, (Spain)

ESR12: Fracture in fibre-reinforced thermoplastics (FRTPs) across the scales

Univrsidade do Porto, (Portugal)

ESR13: Phase Field and Finite Fracture Mechanics for fragmentation and dynamic crack propagation in brittle materials and composites

Politecnico di Torino, (Italy)

Contract signing and incorporation dates have yet to be defined. For **more information** about the call and application process visit www.newfrac.eu

ADDITIONAL INFORMATION

Benefits

A full-time fixed-term contract is offered. Marie Sklodowska Curie Actions ITN provide competitive financial support to the ESR including: a competitive monthly living and mobility allowance and salary, coverage of the expenses related to the participation of the ESR in research and training activities (contribution to research-related costs, meetings, conference attendance, training actions, etc.). The recruited researchers will have a regular contract with the same rights and obligations as any other staff member of the institution.

Eligibility criteria

Applicants must at the time of recruitment: 1) Be in the first four years (full-time equivalent) of their research careers. The four years start to count from the date when a researcher obtained the degree (e.g. Master's degree) which would formally entitle him/her to embark on a doctorate. 2) Candidates could be of any nationality but have not resided in the host country for more than 12 months in the last 3 years 3) Have NOT been awarded a doctoral degree.

Selection process

Applicants are evaluated by a selection committee on the basis of past academic performance (grades) and background, scientific relevance and aptitude to research, and any other additional pertinent data submitted in the application (such as scientific publications, if any). The candidates that pass the initial assessment of the applications will be invited for an interview with the selection committee, either in person at the campus, or via standard internet videoconference. Equal opportunities are ensured to all candidates throughout the evaluation process.

Web site for additional job details

https://www.newfrac.eu/phd-positions/overview

REQUIREMENTS

Offer Requirements

REQUIRED EDUCATION LEVEL

Engineering: Master Degree or equivalent

REQUIRED LANGUAGES

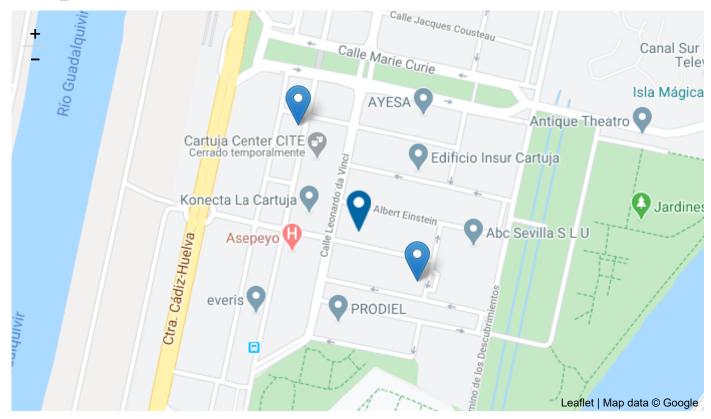
ENGLISH: Excellent

Specific Requirements

Each ESR have their minimum skills requirements at:

https://www.newfrac.eu/phd-positions/overview

Map Information





WORK LOCATION(S)

13 position(s) available at NEWFRAC Spain Sevilla 41092

EURAXESS offer ID: 519564

Disclaimer:

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