

14/02/2020



ESR8: PhD Student Position at Tel-Aviv University within EU MSCA-ITN-ETN NewFrac

Where to apply

Application Deadline: 30/06/2020 17:00 - Europe/Brussels

Contact Details

Where to send your application.

COMPANY

Tel-Aviv University

WEBSITE

<https://www.newfrac.eu/application-form>

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY

Tel-Aviv University

COUNTRY

Israel

DEPARTMENT

School of Mechanical Engineering -
Experimental Biomechanics and
Computational Mechanics Laboratory

CITY

Tel-Aviv

ORGANISATION TYPE

Higher Education Institute

WEBSITE

<https://english.tau.ac.il/>

ORGANISATION/COMPANY

Tel-Aviv University

LOCATION

Israel › Tel-Aviv

RESEARCH FIELD

Engineering › Mechanical engineering

TYPE OF CONTRACT

Temporary

RESEARCHER PROFILE

First Stage Researcher (R1)

JOB STATUS

Full-time

APPLICATION DEADLINE

30/06/2020 17:00 - Europe/Brussels

HOURS PER WEEK

40

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 Innovative Training Network "**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 5 European countries (**France, Germany, Italy, Portugal and Spain**) and 2 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.

The following position and project is available at **Tel-Aviv University** in **Tel-Aviv, Israel**:

ESR 8: Fracture in biological anisotropic hard tissues (human bones)

Objectives: *Perform experiments on bone tissues at micro and macro scales, learn to use a micro-CT scanner and apply a digital image correlation (DIC) system for the measurements of displacements and strains, formulate a failure initiation criterion for trabecular bone, and verify and validate it by application of a high order Finite Element Analysis (FEA).* **For more information about this position please go to <https://www.newfrac.eu/phd-positions/esr8>**

Contract signing and incorporation dates are orientative and 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 Curie ITNs 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/application-form>

REQUIREMENTS

Offer Requirements

REQUIRED EDUCATION LEVEL

Engineering: Master Degree or equivalent

REQUIRED LANGUAGES

ENGLISH: Excellent

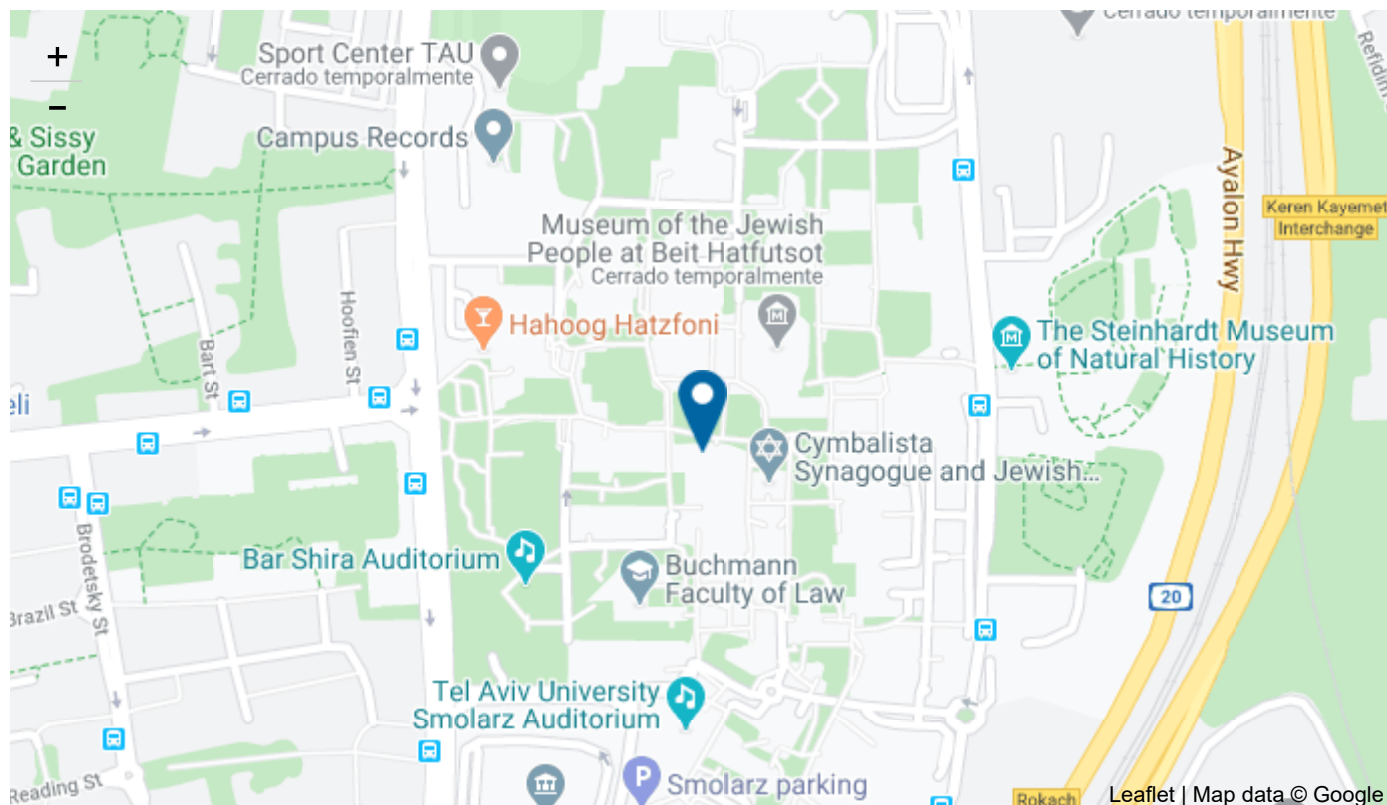
Skills/Qualifications

- Master's degree in Mechanical/Aeronautical/Civil Engineering/ Physics/ Applied Mathematics, **earned before October 31 2020**
- Excellent undergraduated and Master's degree grades
- High level of written and spoken English
- Teamwork ability

Specific Requirements

- MSc final grade of minimum 85 and grade on the MSc thesis of minimum 90.
- BSc final grade of minimum 85 and in 15% top of the students during that year.
- Excellent recommendation letters from 2 faculty members who know the candidate.

Map Information



 Job Work Location  Personal Assistance locations

WORK LOCATION(S)

1 position(s) available at
Tel-Aviv University
Israel
Tel-Aviv
4R73+8Q Tel Aviv-Yafo, Israel

EURAXESS offer ID: 492658

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