Post-Doctoral Position at Technion – Israel Institute of Technology

The structural optimization research group at Technion invites applications for a 2-year postdoc position in the field of topology optimization. The postdoc project is part of a research and development collaboration with an industrial partner that specializes in design and manufacturing of load-bearing components for aircraft.

The project
The project will involve the following challenges and opportunities:

- Formulating novel approaches for embedding manufacturing considerations in topology optimization
- Developing computational procedures for solving the optimization problems, aiming at high-resolution design capabilities
- Collaborating closely with the industrial partner for adaptation to realistic design scenarios

In parallel to the work on the project, the postdoc researcher will have the opportunity to pursue also independent research and to participate and contribute to other ongoing projects within the research group. The position is for 2 years and there will be a review after one year. A full postdoc scholarship will be provided, the current rate is 12,000 NIS per month (approximately 3100 €.)

For further information, please contact Associate Professor Oded Amir: odedamir@technion.ac.il

For further information about the research group, visit: https://structopt.net.technion.ac.il/

Qualifications
The expected skills and qualifications are:

- A PhD degree in a related area of engineering (mechanical, civil/structural, aeronautical)
- Strong background in computational mechanics, in particular finite element methods
- Proficiency in C/C++ programming, experience with parallel computing an advantage
- Experience with topology optimization, large-scale procedures an advantage
- Excellent track record of research and publication

How to apply
Please submit your application by email to odedamir@technion.ac.il. The deadline for application is January 15, 2020. Please attach the following in PDF format:

1. Cover letter
2. CV, including names of three referees
3. PhD diploma (if already completed)
4. List of publications