FEAC
ENGINEERING | REALIZE YOUR DIGITAL TWIN

EMI/EMC Simulation Engineer

Patras, Greece
Full-time

-Job Description-

A. **Your responsibilities**

Are you passionate about electromagnetics and computational modeling? Do you want to work on cutting-edge simulations in low-frequency and high-frequency electromagnetic applications, including EMI/EMC analysis? Then this is the opportunity for you!

Take Part!

FEAC Engineering is looking for an **Electromagnetic Simulation Engineer** to join its technical team at its brand-new, state-of-the-art offices in Patras, Greece. As part of the team, you will:

1. Develop and execute low-frequency & high-frequency electromagnetic (EM) simulations for a wide range of industrial applications, including EMI/EMC studies, radar cross-section (RCS) analysis, and shielding effectiveness.
2. Work on multiphysics simulations that integrate electromagnetics with structural, and thermal models.
3. Ensure compliance with EMI/EMC regulations and industry standards, such as MIL-STD, CISPR, IEC, IEEE, and DO-160, by performing simulation-based verification and validation.
4. Provide technical consulting & pre-sales support for FEAC's exclusive partnership with Siemens Digital Industries Software, specializing in Simcenter 3D Low-Frequency & High-Frequency Electromagnetics.
5. Participate in high-impact research and industrial projects, collaborating with international partners and clients in sectors such as aerospace, defense, maritime, and energy.
6. Engage in EMI/EMC certification processes, assisting clients in optimizing their designs to meet regulatory and performance requirements.

B. **Your profile**

→Skills/Experience

Required:

- Strong background in electromagnetics, EMI/EMC, and numerical modeling, with hands-on experience in solving both low-frequency & high-frequency EM problems.
- Experience in electromagnetic simulation software, such as Siemens Simcenter 3D, Altair FEKO, ANSYS HFSS, COMSOL Multiphysics, or similar tools.
- Experience with FEM and BEM.
- Knowledge of electromagnetic compatibility (EMC), interference (EMI), and shielding effectiveness.

- Familiarity with relevant industry standards (MIL-STD-461, DO-160, CISPR 22/32, IEC 61000, IEEE, ITU, etc.).
- Experience in CAD modeling and meshing techniques for EM simulations.
- Ability to work in multidisciplinary teams with international partners and clients.
- Fluency in English (spoken and written).

Valuable:

- Programming skills in Python or similar.
- Experience in EMC testing and validation, including laboratory measurements and mitigation techniques.
- Familiarity with multi-domain simulation, including coupled EM-thermal and EM-structural models.
- Technical proposal & report writing skills for R&D and industrial projects.
- Presentation and teaching skills for client training & technical support.

Eligibility criteria:

- You have a professional background in **Electrical Engineering, Applied Physics,** Mechanical Engineering (or a related field) and have either:
    - a Master's degree (or 5-years study) or PhD with min. 5 years of post-graduation professional experience;
    - Candidates must have **fulfilled their military service obligations** (if applicable).

C. Additional Information

Contract duration: 36 months, with the potential for a permanent contract extension (depending on results/efficiency).
This position involves:

- Working with strict deadlines.
- Managing multiple tasks / projects simultaneously.
- Drafting & contributing to project proposals.
- Travelling for meetings, conferences, and exhibitions.

D. What We Offer

- Competitive salary package (based on proven experience & results/efficiency).
- Continuous professional development through hands-on training & exposure to state-of-the-art software tools.
- Collaboration with global leaders in engineering simulation and digital twin technologies.
- Opportunities for travel to international conferences and industry exhibitions.
- A dynamic, innovative-driven work environment in brand-new facilities.
- Life insurance coverage for added security and peace of mind.
- Supermarket vouchers as part of our employee benefits program.

E. About Us

At FEAC Engineering, we are at the forefront of physics-based simulations, Digital Twin technology, AI-driven engineering solutions, and digitalization strategies, revolutionizing industrial innovation through cutting-edge computational methods. Since our founding in 2014, FEAC has evolved into a global leader in Simulation-Driven Product Development and advanced digital solutions, collaborating with some of the most renowned industry giants across sectors such as aerospace, maritime, energy, and defense.

FEAC's dedication to innovation and excellence has been acknowledged at the highest levels. The company has been awarded the Seal of Excellence by the European Commission, recognizing its significant contribution to cutting-edge European research and development. Additionally, FEAC has received the prestigious European Defence Agency (EDA) Innovation Prize, further solidifying its leadership in advanced engineering solutions.

At FEAC, we don't just follow the industry—we redefine it. Join us in shaping the future of digital engineering, expanding our global industrial collaborations, and leading the transformation of high-tech industries worldwide.

Ready to take your career to the next level? Apply now and become part of FEAC's team!