

Structural Engineer (with Python Skills) at CAEmate

We are currently seeking a determined and skilled Structural Engineer with Python Skills to join our team.

About CAEmate

CAEmate is an Engineering Software company developing disruptive technologies for Monitoring and Predictive Maintenance of Infrastructures (bridges, viaducts, tunnels, slopes, buildings, wind towers). Our mission is to digitalize infrastructure while making it safer and smarter. We strive for safety, sustainability and innovation, and we are committed to fostering an engaging, innovative work environment.

Role Description

In this role, you will perform structural calculations and checks by hand and with Finite Element Analysis (FEA) with Python skills, ensuring that our clients receive outstanding engineering solutions. You will be supporting the developers of Structural Digital Twins, guiding them through the process of analyzing the available information and helping them gain insight into the monitored object.

Key Responsibilities

- Review and analyze construction plans of infrastructure using Italian and European standards
- Perform structural analysis and design of complex structures using professional software and FEA
- Use Python for data analysis, post-processing, or building small tools to automate repetitive engineering tasks
- Support the development of AI- or ML-enhanced monitoring features (no need to be a full-on data scientist, but you should know your way around Pandas and basic ML workflows)
- Collaborate closely with our software team to integrate structural models into our cloud platform
- Prepare design reports and documentation in Italian and English
- Monitor, maintain, and update structural health analysis of infrastructure

Your Profile

- Degree in Civil or Structural Engineering
- Advanced knowledge of Italian and European Engineering standards for design
- Proven experience in the engineering industry, especially in structural design or related fields
- Proficient in professional FEA software
- Excellent competence with Python.
- Experience with Data Analysis techniques.
- Familiarity with Artificial Intelligence and Machine Learning.
- Knowledge of general OOP concepts and functional programming in Python.
- Competence with main libraries for the above fields, like Pandas and PyTorch;
- Strong analytical and critical thinking skills
- Passion for safety, sustainability, and innovation
- Excellent command of Italian and English, both spoken and written
- This is a hybrid-work position: we offer both remote and on-site approaches.

Optional skills:

- Previous experience with civil engineering projects.
- Advanced mathematical skills such as analitic geometry.
- Understanding of cloud environment and related technologies.
- Application containers (Docker or Podman);

Our Offer

- Young, dynamic team of engineers and developers
- Modern office within the NOI TechPark innovation campus
- Flat hierarchies with short communication channels and quick decisions
- Fulfilling, broad and varied field of tasks
- High-quality training and constructive feedback culture
- Latest high-tech gear for best performance and efficiency
- Immediately available full-time position with on-site approach
- Attractive compensation: 40k – 60k €/year depending on experience and skills
- Financial incentives based on jointly defined KPIs

Join Us

CAEmate S.r.l.

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If you are ready to take the next step in your career by joining a team dedicated to safety, sustainability, and innovation, don't hesitate! Apply and start your journey with CAEmate today to make the infrastructure field safer and smarter.

CAEmate is proud to be an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees

Apply today and help us shape the future of the civil engineering industry!

- Through our website: <https://caemate.com/careers>
- Via e-mail: info@caemate.com
- Via LinkedIn: <https://www.linkedin.com/company/caemate>

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