

Mechanical Engineer – Thermal Design

Job Offer

The Company

3Brain AG is a Swiss deep tech company working on cell-electronic interfaces that link biological networks to computers via custom-made semiconductor microchips. Our mission is to empower life scientists to probe intelligent networks, accelerate biomedical discoveries for the benefit of patients, and create a future more exciting than the present. Our interdisciplinary team of scientists and engineers are constantly pushing the boundaries of engineering for life's complexities. We are ambitious, fast-growing and love to explore. The company is headquartered in Switzerland nearby Zurich, has a Data Science and Discovery Unit in Genova, Italy, and has installed its cutting-edge products in laboratories and pharma companies worldwide.

More info: <http://www.3brain.com/about.html>.

Job description

3Brain is looking for a full-time Mechanical Engineer - Thermal Design for its Swiss office. You will be an integral part of our dynamic engineering team, contributing to the development of cutting-edge products with a focus on efficient thermal management and dissipation of heat for machines designed for operation in cell incubators. Main responsibilities:

- Collaborate with cross-functional teams to define design requirements and specifications.
- Conduct thermal simulations and analysis to optimize product performance and reliability.
- Design mechanical components, ensuring seamless integration with electronics and optimal heat dissipation.
- Design other parts of our products on CAD, ensuring compatibility and alignment with overall product design.
- Work closely with electronics engineers to incorporate electronic components into overall product design.
- Perform testing and validation of integrated systems to ensure functionality and adherence to specifications.
- Evaluate and select materials and manufacturing processes suitable for thermal and electronic components.
- Contribute to the continuous improvement of product design processes and methodologies.

Required Qualifications

- Bachelor's or Master's degree in Mechanical Engineering or a related field.
- Proven and extensive experience in product design, demonstrating a strong emphasis on thermal management and electronics integration.
- Exceptional proficiency in CAD software for mechanical design and advanced thermal simulation tools.
- Deep understanding of heat transfer principles, thermal management techniques, and their application in product design.
- Outstanding problem-solving skills and a creative approach to addressing complex thermal and electronic design challenges.
- Effective communication skills, coupled with the ability to collaborate seamlessly within cross-functional teams.
- Excellent English language skills.
- Applicant must have an EU residence permit.

Additional Qualifications

- Proficiency in FEA software such as ANSYS, COMSOL, or similar tools.
- Experience with scripting environments such as Python and MATLAB.
- German language knowledge.

What We Offer

- A dynamic and stimulating work environment driven by a desire to build transformational technologies to help others.
- A young, fast-growing company with plenty of opportunities for personal growth and development.
- Working place: **Pfäffikon SZ, Switzerland**. It's a beautiful lakeside village just outside of Zurich, the country's main cultural, financial, and business center.

To apply send your CV and short motivation letter to hr@3brain.com, subject: [Mechanical Engineer - Thermal Design](#).

