Software Engineer - Histology & Image Data Processing

Make a meaningful impact in Drug Discovery

Are you passionate about applying your programming skills to create meaningful impact? Do you want to contribute to cutting-edge drug discovery? Whether you're just starting your career or looking to expand your expertise, Gubra offers an exciting opportunity to grow and make a significant difference.

We're looking for a Software Engineer / Scientist to join our Histology Department, supporting both internal and external preclinical drug discovery projects.

About the Histology Department

Our department plays a central role in Gubra's drug discovery pipeline, utilizing a wide range of tissue-based technologies. We aim to deliver high-quality histology data and continuously integrate new technologies to drive innovation.

Our multicultural team consists of seven scientists and five laboratory technicians, working closely across all departments and contributing diverse expertise and perspectives in our research.

Your Role: Versatile and Innovative

As a Software Engineer in Histology, you will contribute directly to our research by developing tools to generate high-quality histopathological data. You'll collaborate closely with scientists and technicians across a variety of exciting projects in a dynamic environment where new technologies and methods are constantly being adopted. You will work closely with biologists, pathologists, and other researchers to understand their data needs and deliver computational solutions that support drug discovery. With a strong focus on automation, your work will contribute to the long-term goal of building an integrated histology laboratory.

Join us and be part of a team that is driving innovation and making a real difference in the field of drug discovery.

Key responsibilities:

- Design, develop, and maintain innovative software applications and pipelines for automated image analysis, including tools and algorithms for histological image segmentation, feature extraction, and quantification across various microscope platforms.

- Efficiently manage and process large datasets of histological images, ensuring data integrity and accuracy.

- Work closely with scientists to understand their needs and provide tailored solutions. Translate research questions into image analysis tasks and statistical reporting. Provide scientific and strategic advice to project teams, addressing their image analysis needs with the highest scientific ambition.

- Promote collaboration on image analysis between the Histology Department and Gubra's software development team. Coordinate and contribute to cross-functional projects involving the sequencing (NGS) and 3D imaging platforms, as well as research teams across Gubra.

- Stay at the forefront of image analysis techniques, applying the latest advancements to improve existing methods and develop new approaches.

Your profile:

- A degree in Computer Science, Bioinformatics, Biomedical Engineering, or a related field. Advanced degrees (MSc, PhD) are preferred

- Proficiency in programming languages such as Python, R, or MATLAB with a strong foundation in data processing and analysis software and libraries (e.g. Visiopharm, ImageJ, OpenCV)

- Profound understanding of deep learning, machine learning, and AI models in biological image analysis, including tissue and cell segmentation (2D and 3D), detection of co-localization, and pathological scoring using high-resolution images

- Understanding of histology and experience in analyzing histological images. Familiarity with drug discovery and pre-clinical research is a plus

- Strong analytical and problem-solving skills, with the ability to interpret complex biological data

- Excellent written and verbal communication skills in English, with the ability to effectively present findings to both technical and non-technical stakeholders.

Additional experience:

- Previous experience using biological image analysis applications such as Visiopharm, QuPath, ImageJ, or CellPose is desired but not required

- Experience with multiplexing technology, such as Akoya (PhenoInmager HT), Miltinyi (MACSima), or Lunaphore (COMET) is desired but not required

- Familiarity with digital pathology and whole-slide imaging and acquisition using high-throughput microscope scanners (e.g., Aperio GT 450 Digital Pathology Scanner or other advanced microscopes).

What we're looking for

You're a collaborative team player who values open communication and shared success. You're curious, detail-oriented, and eager to learn. Whether you're early in your career or bring years of experience, we'll support your professional growth and development.

This role is ideal for someone who thrives in a collaborative environment, enjoys tackling technical challenges, and is driven by the opportunity to contribute to meaningful scientific progress. Your work will directly support drug discovery efforts by delivering accurate, efficient analysis of histological images — helping to advance new therapies and treatments.

Why join Gubra?

- Join a growing department with room for personal and professional development

- Work in an environment that values your ideas and initiative

- Contribute to a field that matters – drug discovery

- Enjoy a 37-hour workweek, including paid lunch breaks

- Take part in social initiatives like Friday breakfasts, morning workouts, and Friday bars.

Contact and application

Please apply no later than 24th August 2025 by uploading your cover letter, resume (in English), and relevant diplomas on our website.

Interviews will be conducted on a rolling basis, and we reserve the right to close the posting before the deadline if a suitable candidate is found.

If you have any questions about the position, you are very welcome to contact Department Manager, Michael Helwig at mhe@gubra.dk.

We are looking forward to receiving your application.

About Gubra

Gubra is an ambitious contract research organisation (CRO) and biotech company striving for excellence at all levels. We insist on doing things efficiently – and often differently - to achieve the results we aim for. Our vision is to become leaders in the fight for a healthier and more sustainable world. We do that by facilitating the discovery of new medicine, and by acting and inspiring others to fight the ongoing climate and biodiversity crises.

Gubra's activities are focused on the early stages of drug development and are organised in two highly synergistic business areas: CRO Services and Discovery & Partnerships (D&P). We generate our revenue by performing research for life science companies as well as by partnering projects from our discovery and development pipeline.

Our therapeutic focus is within metabolic and fibrotic diseases, and we specialize in *in vivo* pharmacology, *ex vivo* assays, drug profiling, histology, stereology and whole brain and organ imaging. In addition, we offer a full palette of advanced transcriptomics. Our ML/AI-driven peptide drug discovery platform streaMLine enables us to rapidly develop a peptide hit into a non-clinical candidate ready for development. Through a constant focus on high quality, scientific excellence, speed, and solid teamwork we have established ourselves as a highly professional and competent partner in the market.

People are our greatest asset, and our team consists of +270 employees all located in Hørsholm, Denmark. The mix of people from different cultures and educational backgrounds combined with our entrepreneurial mindset have greatly impacted our working environment, which is characterized by entrepreneurial drive, scientific curiosity, and teamwork – **we join forces!**