



## Senior Software Engineer/Senior Consultant - InPhase Solutions AS

### About the position

InPhase Solutions AS is looking for a senior software engineer to fill the position of Senior Consultant. At InPhase we work with many different applications of ultrasound technology, such as medical and non-medical imaging, flow measurements, corrosion surveillance, thickness measurements, wireless transfer of energy and data, material inspection, flaw detection, and classification of fish. We work with clients in various industries, and also pursue our own development projects.

Your main tasks will be software and algorithm development, specifically on projects that require higher level programming skills that exceed typical scientific programming levels. Your tasks can include the design, implementation, testing, and validation of new algorithms, as well as performance tuning and analysis, optimizing Machine Learning applications, software documentation, and software maintenance. You are expected to contribute to both customer projects and our own development projects. Depending on the project, we work both in teams (within InPhase and/or with the customer/partner) and individually. This means that you should be autonomous and self-driven, but also able to collaborate with other team members. Some projects may require travel, mostly in Norway, but occasionally also abroad.

You will be working from our office at Hornebergveien 7A in Fossegrenda, Trondheim.

### Who are we looking for?

Candidates should:

- Have an MSc or PhD degree in Computer Science, Software Engineering, Cybernetics, or a related technical field
- Have relevant work experience
- Be enthusiastic and independent
- Have good C++ programming skills
- Have good communication and documentation habits

Candidates would preferably also have experience with:

- Qt and QML
- GPU programming (CUDA or OpenCL)
- Algorithm development and AI fundamentals
- Deep Learning Frameworks (TensorFlow, PyTorch, or Keras)
- Python
- Matlab

On a personal level, we are looking for someone who feels connected to our company values:

- *Participation* – Value and maintain a culture with open discussions, different points of view and a flat hierarchy.

- *Sustainable* – Seek sustainable, long-term solutions – for our clients, for the environment, for work-life balance and company operations.
- *Re-think* – Value curiosity, creativity, and open-mindedness. Be innovative and view challenges from several angles.
- *Skilled* – Value each other, both as individuals and as a team. Be aware of our expertise and limitations, and continuously learn.
- *Symbiotic* – Make the team succeed. Be flexible, helpful, and collaborative towards our clients and colleagues.

We offer

- A family-friendly work environment
- Flexible working hours, with a focus on work/life balance
- Your own office in a newly renovated space with a canteen
- A good pension offering
- The opportunity to become a shareholder

### **Practical information**

All applications received before the **1<sup>st</sup> of March, 2023** will be considered. After this date, you can still reach out to us - we are always interested in getting to know suitable candidates for existing or upcoming vacancies. If you have questions or want to apply, please contact Eirik Hofstad Klette (General Manager) at [eirik.klette@inphase.no](mailto:eirik.klette@inphase.no) or (+47) 418 52 706.

Applications should include a CV, a letter of application, and your university transcript and grades. If you have some code that you are proud of, we would be interested in having a look, so feel free to send us a link. It can be anything and in any language.

For more information, you can visit our homepage: [www.inphase.no](http://www.inphase.no).

### **About InPhase Solutions AS**

We are a technology development and consulting firm specializing in ultrasound, acoustics, algorithm development, and signal processing for the medical, maritime, oil & gas, and industrial sectors. InPhase is an employee-owned company dedicated to creating interesting and fun jobs through developing technology. Our vision is to be an internationally reputable provider of ultrasound technology expertise and solutions.

Our team is highly competent, holding MSc or PhD degrees, with extensive experience from academia and industry. We are a strong multidisciplinary team that combines an academic/analytical approach with industrial and business-oriented thinking to develop new cutting-edge technology and improve existing products. We see our colleagues as the company's greatest assets, and this attitude permeates every aspect of our business and our values.

Our expertise ranges from general acoustics, signal modelling and analysis/processing, algorithm development, image processing, transducer design and manufacturing, Doppler methods, and hardware electronics, to systems evaluation, technology implementation, and complete system design and development.

We're headquartered in Trondheim, Norway - but we have consultants located elsewhere in Norway and the Netherlands as well. Trondheim is internationally renowned for its vibrant ultrasound research & technology environment.