Erlang/OTP Developers – Student Helpers

Ericsson Nikola Tesla Group gathers over 3200 experts from the STEM field. With more than 70 years of experience and everlasting work on new technologies, we offer the perfect mix of new knowledge and experience.

Our job

Our R&D's Networks Development Control System team is looking for new team members and student helpers willing to develop **Middleware** using Erlang/OTP executing on Embedded Linux.

Our Research and Development Center is the strongest and the biggest telecom R&D center in the region. Our organization has been growing very fast for the last couple of years and we need you to help us innovate and bring new technology all over the world.

Ericsson Radio System is designed to fit all site types and traffic scenarios, even as networks grow in scale and complexity, from 2G, 3G, 4G, and 5G – delivering industry-leading performance on the smallest site footprint with the lowest energy consumption.

Middleware plays an important role in the system, developed in Erlang/OTP. If you are passionate about developing:

- Autointegration (SW download from remote location via secure ETH/IP network and SW installation)
- SW upgrade
- Secure Operation & Maintenance (Credentials, Authentication, Authorization)
- Configuration using NETCONF/YANG, Database storage

What is Erlang?

Erlang is a functional programming language that originated in Ericsson in 1986. Initially, it was used there as a switching language but since then has been released as open source which has led to wide usage for a variety of different purposes. Many clients, across a range of industries use it due to its scalability, reliability and ability to hot-swap. One of the main reasons for using Erlang instead of other functional languages is Erlang's ability to handle concurrency and distributed programming. By concurrency is meant programs that can handle several threads of execution at the same time. For example, modern operating systems allow you to use a word processor, a spreadsheet, a mail client, and a print job all running at the same time. Each processor (CPU) in the system is probably only handling one thread (or job) at a time, but it swaps between the jobs at such a rate that it gives the illusion of running them all at the same time. It is easy to create parallel threads of execution in an Erlang program and to allow these threads to communicate with each other. As a result, it has been an excellent tool for gaming, trading and big data companies.

There are many companies who have built their product in Erlang and yet a very few people have even heard about it.

Amazon - Used Erlang to implement SimpleDB, providing database services as a part of the Amazon Elastic Compute Cloud (EC2). [source]
Facebook - Used Erlang to power the backend of its chat service, handling more than 100 million active users [source].
WhatsApp - Used Erlang to run messaging servers, achieving up to 2 million connected users per server [source].

Elixir runs on the Erlang VM giving developers complete access to Erlang's ecosystem. [source]

Your job

What will you do?
Work in cross-functional and international teams on hardware accelerated networking devices used in 5G mobile networks throughout the globe. Main task is Middleware software development on BEAM (Erlang virtual machine) on device running on Embedded Linux.
- Writing highly structured fault free code with testing capabilities in mind
- Documenting your code and reviewing someone else's code
- Work on devices that are made in up to million quantity
- Have an impact on designing worldwide used high availability networking equipment
- Cooperate with international teams
- Have fun doing it

Don't miss a chance to learn from Robert Virding, co-creator of Erlang [source]. Better yet, don't miss a chance to enter exciting world of Erlang/OTP development. Join our Croatian team and help us in bringing new 5G technology worldwide! Apply here!