

Combine forestry with cutting-edge technology and smart data analysis and you'll get the most exciting, groundbreaking concept in the forestry industry in 100 years! Are you interested in applied mathematics? Do you want to be a part of redefining forestry at Silvere? This is the summer job for you!

Type: Summer job, full-time (possibility to discuss continuation after summer)

Recommended background: End of studies - graduated

Working hours: 38h/week

Requested starting date: As soon as possible

Location: Helsinki

Application DL: Monday 15.5.2017

Silvere combines forestry with the cutting-edge technology and precise data analytics to make forest management smarter. Forestry value chain plays a significant role in the global economy and will have an important role in the fight against climate change and ensuring high level of biodiversity. Yet over the last 100 years, decision-making in forestry has been largely based on rough estimates and averages. Silvere changes the game by bringing unforeseen practices to the field of forestry. By utilizing the latest technologies including robotics, 3D imaging, big data and advanced analytics Silvere has redefined forest management and made possible to analyze and plan the forest at the accuracy of an individual tree as well as automate every aspect of managing the forests.

This is a unique opportunity to work for the summer 2017 as a part of an industry changing team of highly talented people. We are looking for four to five data scientists with strong applied mathematics skills to join a development project team that works with geodetic data, single tree modeling, tree species recognition, single tree growth modeling and forest management plan optimization.

In the project, you will have your own area of responsibility where you will focus on independently, but you will also collaborate closely with the other members of the team, since every part of the project is linked. The project is well lead and structured; there will be a solid introduction in the beginning and you will get to learn from technology experts and work with the newest technologies and inventions from the area of robotics, 3D imaging, Big Data and advanced analytics utilized in the project.

Primary responsibilities in different roles in the project team include the following:

- Development of data structures and algorithms that enable combining 3D laser scanner data from various sources. (role 1)
- Developing the existing algorithms modeling individual trees based on 3D laser scanner data at high accuracy, and calculating key attributes. (role 2)
- Classifying identified trees across multiple parameters (e.g., tree species) (role 3)
- Developing a forecasting model for individual tree's growth (role 4)
- Modeling the optimal forestry management plan in order to maximize the economic return of the forest within defined boundary conditions (role 5)

We expect you to have relevant study background from university (e.g. mathematics and systems analysis) with strong academic track record, experience on developing mathematical algorithms to optimize and classify information in a fully automated way, deep knowledge on stochastic analysis and capability to develop automated solutions that interpret 3D point clouds. We also look for strong interpersonal skills as part of the work is done with a larger team, but also ability to work independently and take responsibility of the results of the mathematical algorithm development. Earlier exposure to forestry and forest management is highly beneficial, but not required.

We offer you an exceptional summer job where you can be a part of a team changing the forestry industry. You will get to work with like-minded and talented colleagues and learn from the best technology experts. You get to put all your knowledge in use and challenge yourself with interesting tasks. In addition, you will be able to concentrate solely on work, when we will make sure that you will have all the needed tools and facilities available in our modern premises in Helsinki city center as well as a competitive incentive scheme.

Got interested? For more information about the business, take a look at <https://silvere.com/>.

For further questions about the position or regarding the recruitment process you can contact aTalent's Recruitment Manager Laura Isosomppi ([+358 44 557 7737](tel:+358445577737), [laura.isosomppi\[at\]atalent.fi](mailto:laura.isosomppi[at]atalent.fi)).