

## Internship: Data Science for Human Movements in Sports and Healthcare. Software Development

Smart Floor is looking for interns to support us with the development of an innovative product called 'Smart Floor Sport'. This is a smart underfloor system which delivers a diverse range of information to athletes; position of the feet, exact location, and speed and acceleration numbers via a wearable.

Smart Floor is a young company which is active in both health and sport markets. More information can be found on our website: [www.smartfloor.com](http://www.smartfloor.com)

The student will work on different areas depending on interest and education:

- Can you do a flik-flak? Great! But can you identify it by analyzing the movement data of wearables connected to ankles?
- Combine acceleration and positional data of feet to improve the accuracy of the positions.
- Create a quality indicator or confidence value for the calculated positions.
- Based on various sensor data of a wearable (positions, acceleration, gyro, compass, ...), identify jumps of a person. Calculate height and distance of the jump.
- Set up a framework for efficient data analysis.
- Develop software for this in Python or Java (or your favorite programming language).

The student will work in a multi-disciplinary team.

We are looking for 3rd and 4-year Bachelor students from Software Engineering, Data Science, Mathematics, or Sports education (must like programming). The student should be able to:

- work independently and in a team
- be open for innovation
- be motivated

We offer:

- Time to learn
- Freedom
- A nice and open work atmosphere
- A good daily lunch

Interested? Send your resume to Peter Meijer: [peter@smartfloor.com](mailto:peter@smartfloor.com), or leave your contact details behind on our website: [www.smartfloor.com](http://www.smartfloor.com)