Internship: UAVs for assisting avalanche Search and Rescue (SaR) operations
(Internship duration minimal 6 months, flexible starting date)

Nowadays, the technological development of unmanned aerial vehicles (UAVs) is becoming more and more advanced. Even though a complete regulatory framework is not available yet in many countries, research prototypes and commercial applications are spreading. In this project the goal is to create a flexible autonomous drone platform for SaR (Search and Rescue) operations. This platform enables the assistance of UAVs during emergencies under harsh environmental conditions, such as avalanche search and rescue (SAR) missions. UAVs will be a faster, more flexible and less costly alternative compared to helicopters. This project is part of a European call from innovation accelerator EIT Digital. Bright Cape will develop and implement this concept together with other European industry and research partners.

What will you do?
Contribute to the development of a software module that supports avalanche SaR operations by automatic processing of UAV images. You will identify potential spots for the position of the victim, analyse the current risks for the SaR team, and investigate what are the sources that contributed to the initiation of the avalanche. For this project you will be using techniques such as image processing, clustering and change detection methods.

You are
- A critical, and quick thinker
- Innovative and creative
- Motivated, dedicated, and driven to learn more

Do you have a data driven mindset and want to put this into practice in an energetic and vigorous team? Stop searching, because we have a match.
You have

- The power to explain complex matters in a simple way
- Experience in translating complex data to meaningful insights
- Experience with scripting languages like R/Python
- A background in Data Science / Mathematics / Econometrics / Business analytics or a related field

Preferred (but not required):

- Knowledge of image recognition techniques
- Experience with querying languages like SQL and database software

We offer

- An entrepreneurial environment where you’ll be heard
- Freedom in doing what you love
- An innovative environment. We’re using data science to rethink and reshape many domains
- The possibility to keep learning
- Amazing colleagues and a young dynamic team
- An international network
- Yearly ski trip (that we count down to the moment we get back)

Who we are?

Bright Cape is a small & big data consultancy firm located in Eindhoven & Amsterdam with a European reach. Extract, Embed, Educate is what we do. Extract value out of our customer’s data, Embed (Bright Cape proprietary) solutions into our customer’s processes & governance and Educate them to get familiar with data analytics and our solutions.

Bottom line: We help companies increasing their revenue, diminishing their costs and increasing their process efficiency through Data Analytics & Science, Data Driven Experiences (DDEX), and Process Mining. Besides, we are constantly working on various astonishing Europe-wide innovation projects which have led to several innovative products.

Bright Cape employees are very diverse but share their excitement for new opportunities and positive way of thinking. We also greatly value our quarterly team outings, monthly ‘VrijMiBo’s’, Christmas party, family day and most of all our yearly ski trip.

More information can be found at https://brightcape.nl/

Contact us

Challenge accepted? We would like to meet you! Please send us an e-mail with your CV and (short) motivation to i.schutz@brightcape.nl and we will see you soon!