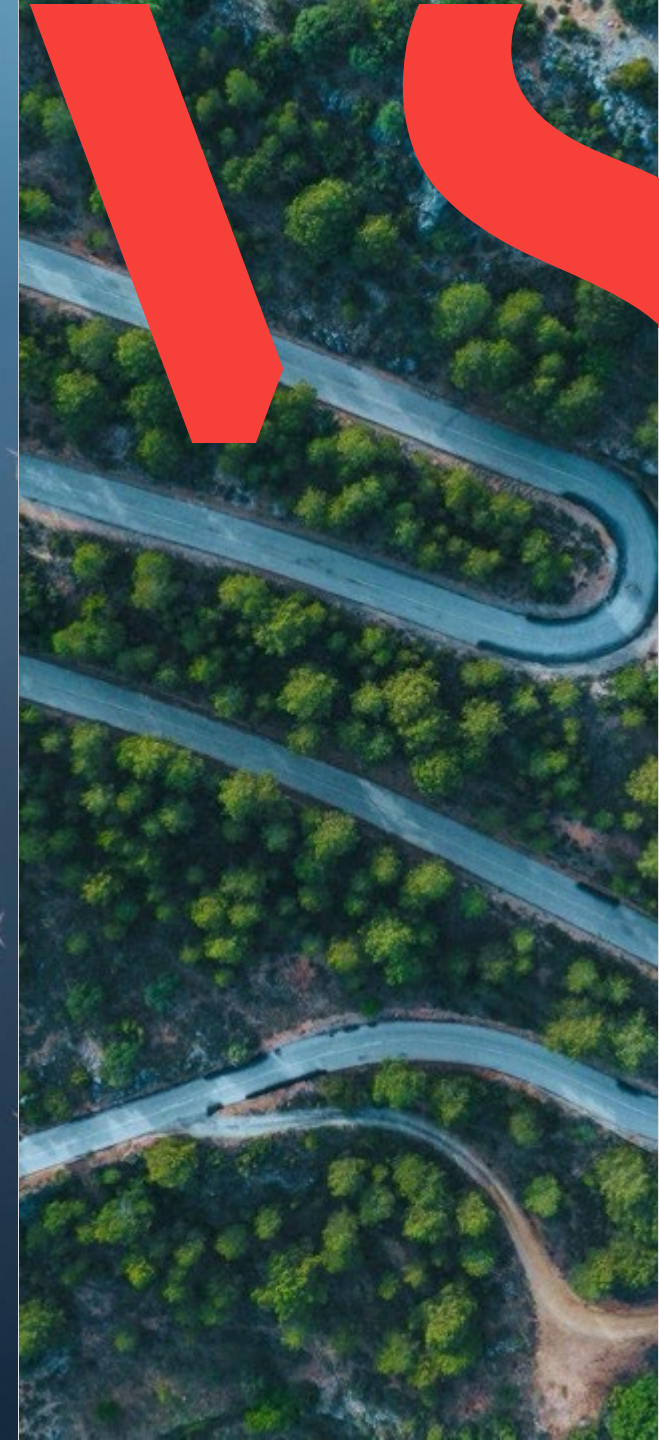


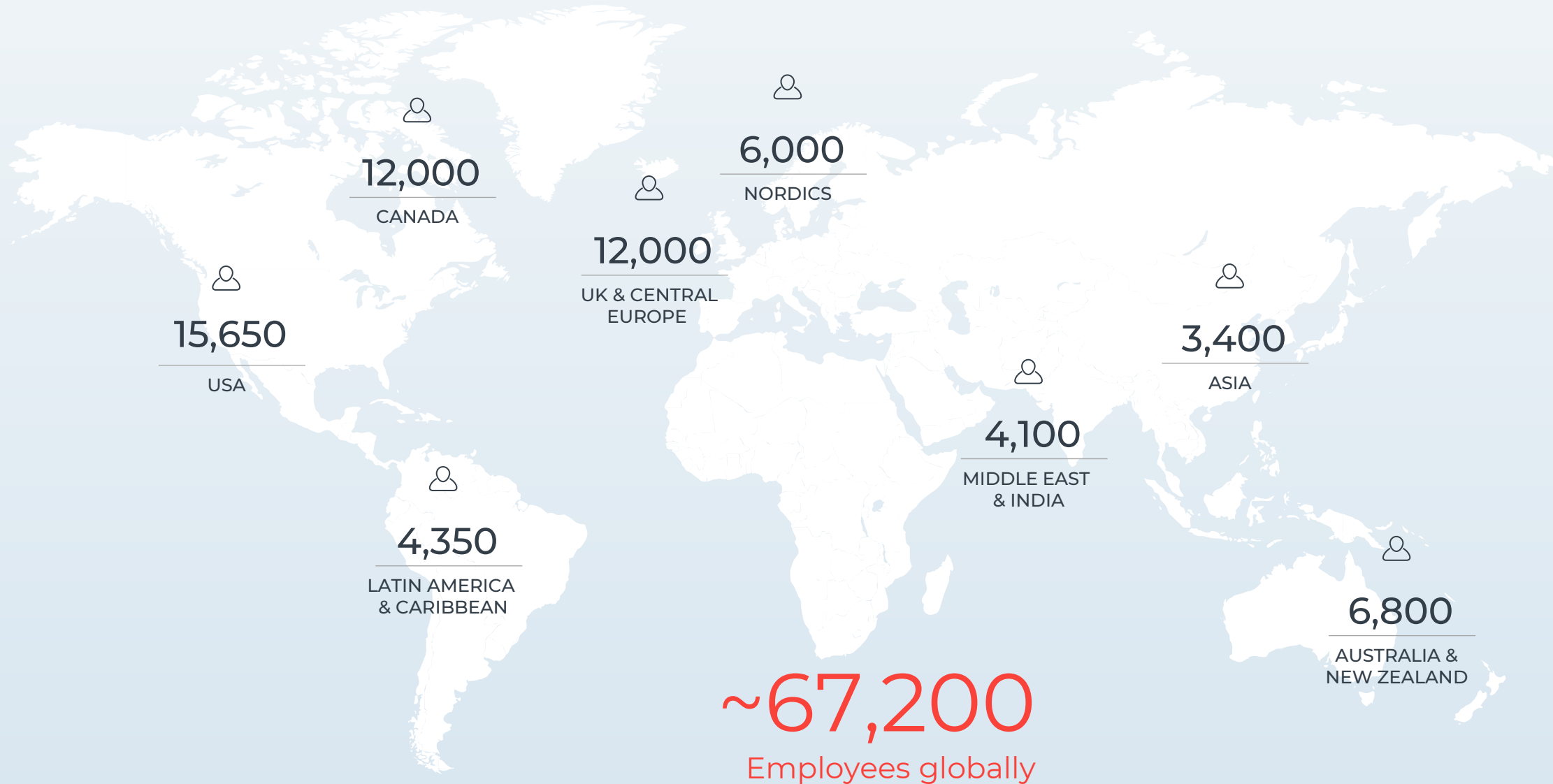
Hi from WSP

Emilia Köylijärvi

Business Area Director, Ground and Rock Engineering and Mining Services

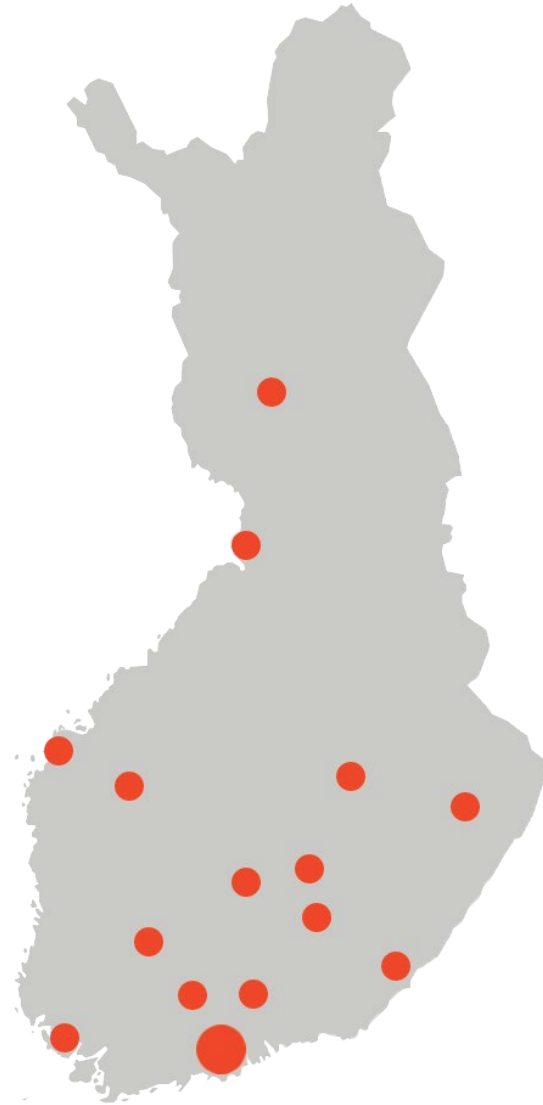
28.8.2024



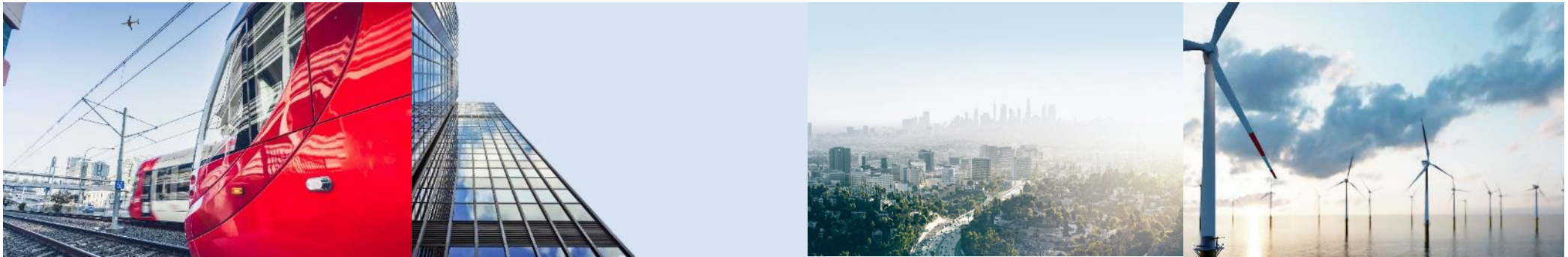


850 experts across Finland

- Helsinki
- Joensuu
- Jyväskylä
- Kuopio
- Lahti
- Mikkeli
- Oulu
- Pieksämäki
- Rovaniemi
- Seinäjoki
- Tampere
- Turku
- Vaasa



Sustainability and responsibility
 Circular economy | Net Zero | Nature-positivity



Transport and Infrastructure

- Traffic planning
- Rail planning
- Roads and streets
- Bridges
- Ground engineering
- Project management

Properties and Buildings

- Architecture
- Repair design
- MEP
- Structural engineering
- Project management

City and Landscape

- Urban architecture
- Urban planning and design
- Landscape architecture
- Lightning design
- Noise and acoustic planning

Water and Environment

- Environmental services
- Urban drainage planning
- Water planning
- ESG and EDD
- Contaminated land investigations and repair planning

Strategic consultancy for environmental, property development and transport projects

WSP Ground Engineering Unit



Our people

29 versatile professionals
in Helsinki, Tampere and
Oulu

19 Geotechnical engineers

1 Vibration expert

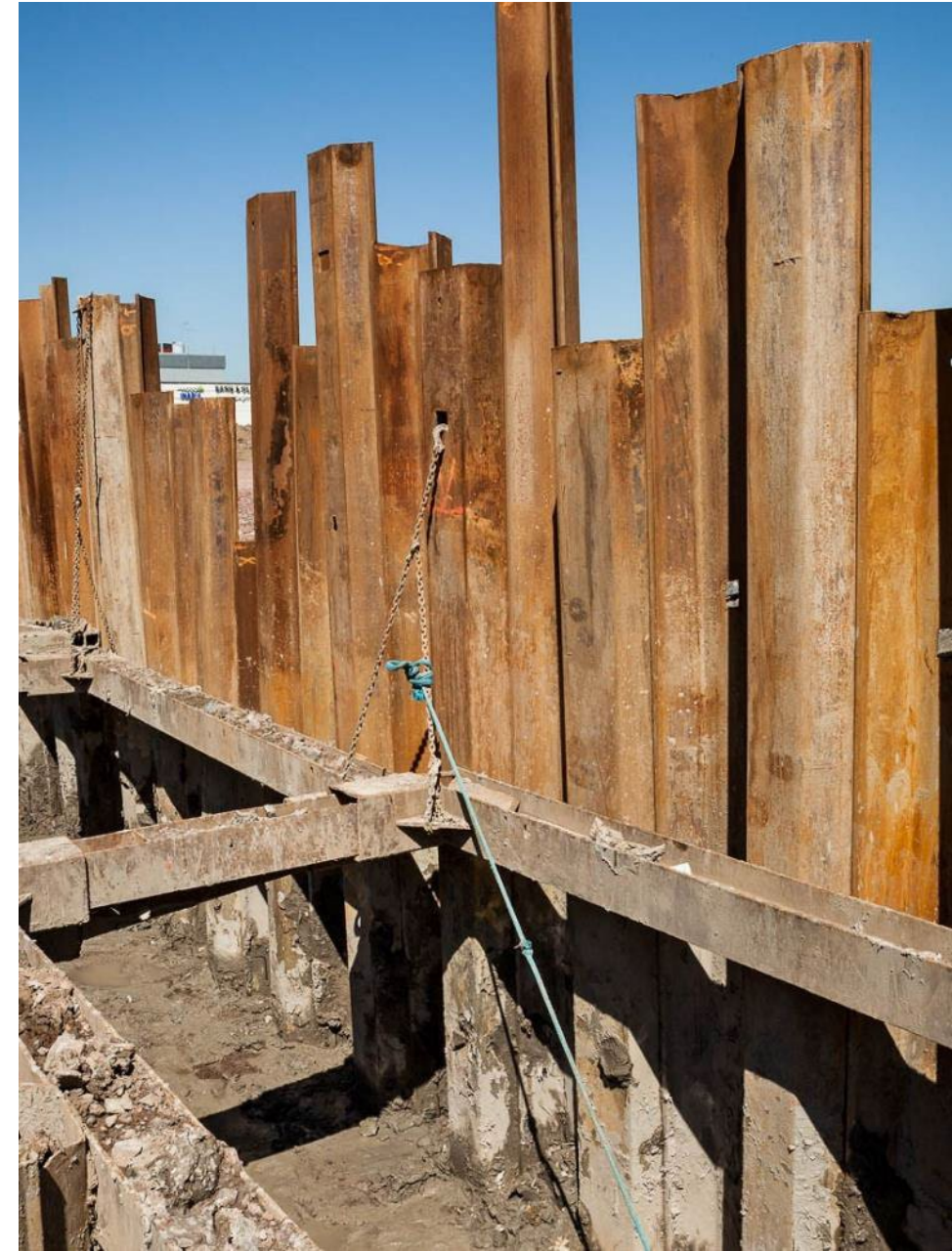
2 Rock engineers

2 Planning assistants

5 Students (3 of them writing Master's thesis)

Geotechnical design

- Multidisciplinary design with connections to almost every field of technology
 - Infrastructures
 - Buildings
 - Construction
 - Stormwater management, pipe networks..
 - Industry, Mining
- Ability to co-operate with
 - Customers
 - other experts
 - Builders
 - Real estate developers
 - Supervisors etc.
- Variety in Level of Detail
 - From very preliminary expert work serving planning to
 - detailed implementation planning and
 - maintenance/renovation planning



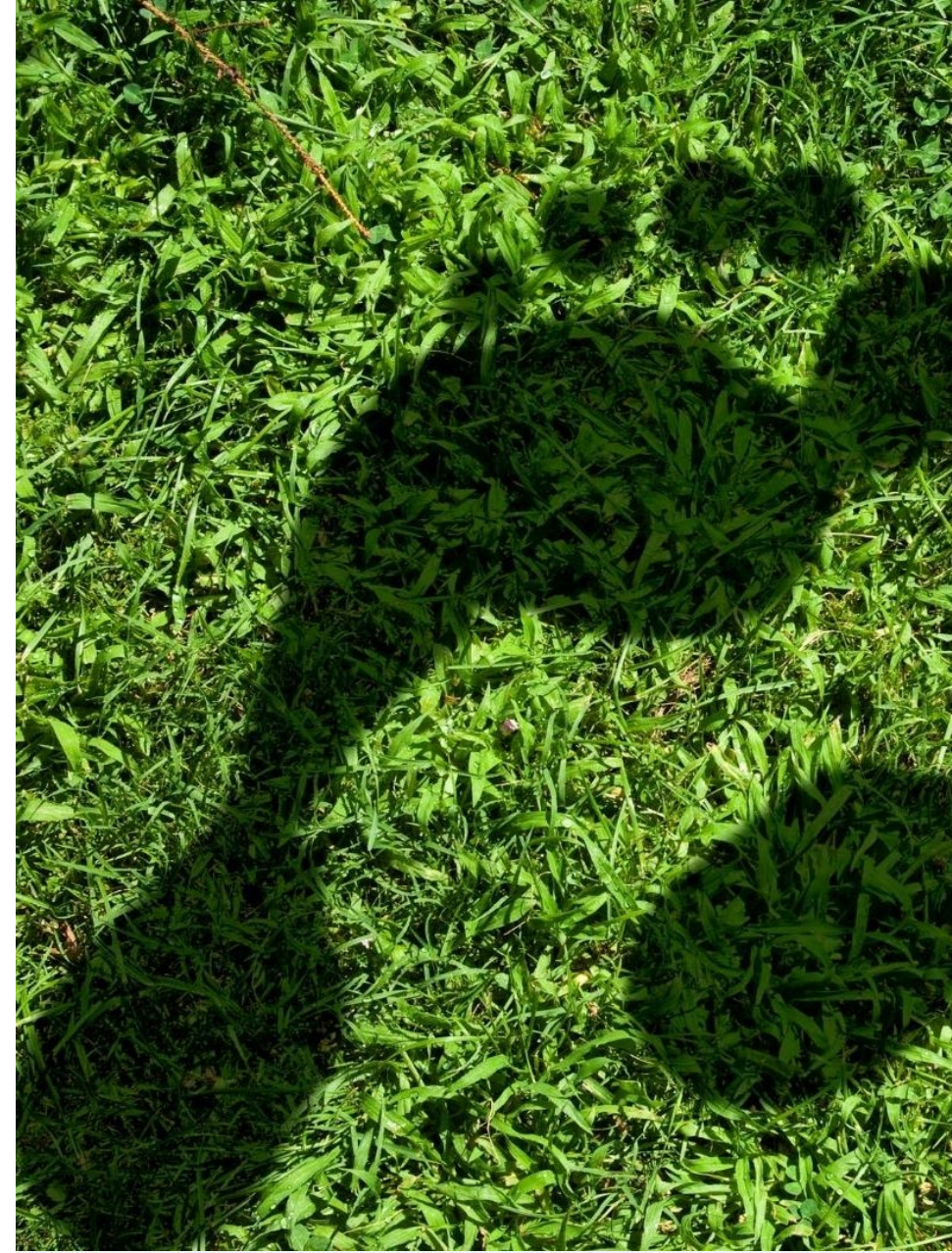
Demands for geotechnical designer

- Theoretical knowledge
- Tolerance of uncertainty
- Quick response
- Problem solving
- Multidimensional visualization



Trends in Geotechnics

- Design in 3D
- Consolidating land use
- Good areas already built → increase in challenging foundation conditions
- Climate change
 - Heavy rains and other extreme weather
 - Sea level rise
- Sustainable use of natural resources
 - Mass economy optimization
 - Circular economy and recycled materials
 - Sustainable and economical construction



Advantages for job-seeker

Design software

AutoCAD, Civil 3D

GeoCalc, PLAXIS

Office software

Excel & word

Experience in construction

Everything else can be taught...

...except motivation and right attitude.



Where to apply

<https://www.wsp.com/fi-fi/ura/avoimet-tyopaikat>



Thank you



wsp.com

Emilia Köylijärvi

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Engineering and Mining Services

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