

Methods Modeller

The Methods Modeller focuses on developing models of carbon stocks and flows across agricultural systems using the peer-reviewed evidence, open source and procured data, with an initial focus on soils. These models will be used to support in building a scientifically credible tool GHG assessment pathway. A key activity is the effective conversion of scientific guidance into code, quality control and data accuracy including testing and providing explanations of the methods and their development.

<ESCO Mapping> - <link to ESCO (European Skills, Competences, Qualifications and Occupations)>

ID	NAME	Concept URI
2143	Environmental engineers	http://data.europa.eu/esco/isco/C2143

Context

EQF Levels	7-8 (Master or PhD)
Departments	IT & Digital Production R&D (Research and Development) HSE (Health, Safety and Environmental)
Profile Sectors	Agriculture sector (crops, livestock, soil, fertiliser)

Green Competences

Name	Type	Description	Level	ESCO
GHG reporting	Skill	General description: Experience in GHG reporting and GHG reporting standards, and an understanding of the strengths and weaknesses of the standards Description in the context of the job role – Delivery of greenhouse gas assessment methodologies, including GHG calculations, emissions and	7	http://data.europa.eu/esco/skill/4300b453-9bcf-474c-9ee3-92ec2229720c

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		removals estimation modelling and uncertainty assessments. activities, tasks on a specific level		
Climate change impact	Knowledge	- General description: Experience in ecological/climate science, Knowledge about climate change impacts, mitigation, and adaptation - Description in the context of the job role – Quality Control and Data Accuracy. Work with the Science & Methods Manager, Product Manager and Technical Manager to develop detailed user and technical specifications for adding new methods to the CFT	7	http://data.europa.eu/esco/skill/1565b401-1754-4b07-8f1a-eb5869e64d95

Digital Competences

Name	Type	Description	Level	ESCO
Carbon modeling	Knowledge	- General description: Carbon modelling experience and a knowledge of relevant methodologies, - Description in the context of the job role: Reviewing different modelling options and advising on approaches to take; to enable development delivery of digital calculation tools. Effective Conversion of Scientific Guidance into Code. Development of calculations and models written in Python.	7	http://data.europa.eu/esco/skill/5be3d306-6cf1-4b49-aa1d-01651dd4ba4c

SSbD (Safe and Sustainable by Design Chemicals)

Name	Type	Description	Level	ESCO

Transversal Competences

Name	Type	Description/Context	Level	ESCO
Communication	Skill	General description: Collaboration and Communication Description in the context of the job role – Coordination of methods sub-contractors; Provide technical insights and explanation of the methods and their development; Support team with technical and project management queries.	5	http://data.europa.eu/esco/skill/552c4f35-a2d1-49c2-8fda-afe26695c44a

Sector Specific

Name	Type	Description/Context	Level	ESCO
Soil fertility science	Skill	General description: Experience with soil carbon process-based approaches Description in the context of the job role – Contribute to product testing and provide recommendations on new features for product development	7	http://data.europa.eu/esco/skill/91a6da8d-24dc-4453-9821-de305864677c http://data.europa.eu/esco/skill/e693138a-842f-4d9f-9aa5-bf515605c359

Other

Name	Type	Description	Level	ESCO
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