

Preparing engineering students for tomorrows challenges:

[Investigating challenges to support interdisciplinarity](#)

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Abstract:

TU/e innovation Space offers an environment that encourages, stimulates and facilitates students to work in interdisciplinary teams on real-life challenges that directly impact our world. These challenges are often open-ended and ill defined and require a shared language for collaboration and interdisciplinarity to facilitate learning processes. This language should be shared among stakeholders, including students, teachers, and industry or NGO's. However, little is known about design characteristics that make these challenges work and what should be done to support interdisciplinarity in innovation Space education.

This project explores innovation Space challenges with the purpose to find a shared language that supports interdisciplinarity in engineering education. The result is (1) a description of interdisciplinarity in innovation Space education, to be shared with stakeholders, and (2) characteristics of challenge-based learning in innovation Space that support this interdisciplinary engineering education (IEE).