

Making Systems Engineering practical

BAM Energy & Water is an organisation that realises the infrastructure to store and transport water and energy, such as water pipes and electricity cables. The organisation has decided to explore the use of Systems Engineering (SE) in its projects to improve project control and enhance transparency. Two bachelor students of Civil Engineering (Twente University) have already investigated the possibilities of SE for BAM E&W. The findings are promising, but also indicate that further research and follow-up actions need to be done.

BAM E&W is looking for a Bachelor student that will do a follow-up of the two Bachelor researches conducted earlier. For example the student could develop a first draft of a Systems Engineering toolkit based on earlier work, or could help develop concrete SE checklists for employees. In sum, BAM E&W would like the student to help them make the SE processes more specific and concrete for use on the workflow.

Required expertise: practical student, able to read Dutch documents, basic understanding of SE (having done Module 4 is enough).

Supervisor: dr. ir. R.S. de Graaf

Period: Execution of project in Module 12 (Q4), hosted at the company / Preparation of the project in Module 11 (Q3)

Website BAM E&W: <https://www.baminfra.nl/energie-water>