

## Assignment student EnTranCe Energy Transition Community

<b>Project title: Transition of school building process of end-users position</b>
<p><b>Suitable for students of:</b> <i>Multiple choices are possible</i></p> <ul style="list-style-type: none"> <li><input type="radio"/> MBO</li> <li><input type="radio"/> BuitenWerkPlaats Built Environment (2<sup>nd</sup> yr, 1 block, 2<sup>nd</sup> yr, block 4)</li> <li><input checked="" type="checkbox"/> Vastgoedlab V&amp;M (3<sup>rd</sup> yr)</li> <li><input checked="" type="checkbox"/> Bachelor graduation assignment (4<sup>th</sup> yr)</li> <li><input type="radio"/> Bachelor internship (limited possibility in daily guidance)</li> <li><input checked="" type="checkbox"/> Research assignment in curriculum year 4</li> <li><input checked="" type="checkbox"/> Honours research assignment</li> <li><input checked="" type="checkbox"/> Master thesis</li> </ul> <p><b>Study Program: Built Environment (SABE), Facility Management, Vastgoed&amp;Makelaardij, Toegepaste Psychologie, PABO, e.a.</b></p>
<b>Period:</b> februari 2018 – juni 2018
<b>Language:</b> NL/ENG
<p><b>Client:</b> ETC sustainable buildings transition group bottom-up (Democratic school)</p>
<p><b>Internal client:</b> Ron de Vrieze, lector Mieke Oostra</p>

### **Background (facts, situation sketch and parent/organization goals)**

Fast global changes affect not only the climate but also the construction industry. New questions arise, for example, how to deal with these changes and all different and even contradictory interests, fast changing needs and unknown future changes. In order to come to a real (energy) transition, construction industry has to reconsider its regular and mainly technical oriented processes of (school) buildings design. Construction industry wants to increase their focus on end-users interests, on a circular approach of construction materials and energy resources, and wants to be more adaptive for future changes. To succeed into a real innovation it needs a multi-disciplinary approaches. An earlier research points out that end-user interests (psychological, physiological and biological) differ hugely with construction industry and societal top-down views. To establish a balanced programme of requirements it needs more research from an user-centered design (e.g. human needs, physiological en biological differences and preferences of end-users). Some preliminary researches are elaborated recently, for example: UV-light (vitamin D); infra-red heating; transparent wood insulation; need differences boys/girls; AC/DC electricity; electro-magnetic fields (EMF).

### **Problem (description of the undesirable situation)**



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University of Applied Sciences

The problem is that current construction industry is dominated by top-down approaches that cause unbalances due to different interests of bottom-up stakeholders, e.g. climate control and building lay-out functionality, and inexperienced to state the requirements well.

## Objective (description of the desired situation)

Desired is to bring the programme of requirements in more harmony with the psychological, physiological and biological needs.

## Result deliverable/product (what is ready if the project is finished) with list of part results

Study report of the process

## Competence level

3

## Connected to Change Agency ETC

*Multiple choices are possible*

- Sustainable Building
- Sustainable Mobility
- Local Communities

## Interested or further information

You will be working in the context change agency sustainable buildings on EnTranCe. You will be working in a multidisciplinary team. For detailed information on this assignment contact R.de. Vrieze (EnTranCe); [r.de.vrieze@pl.hanze.nl](mailto:r.de.vrieze@pl.hanze.nl); M 06 22399269

## How to respond to the vacancy

Send a motivation letter and CV to EnTranCe, Energy Transition Community, [etc@org.hanze.nl](mailto:etc@org.hanze.nl) Attn. Mrs. Jacqueline Joosse, Office Manager EnTranCe. **Note:** If the job does not fit directly with your specific interest, please visit our website to discuss other possibilities.

Website: <http://en-tran-ce.org/for-students/assignments/>