**ERH2 Grant Submission** Icon

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Cover Letter

Titan Berson

Team Engineer

ERH2

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To whom it may concern:

We are asking $ (insert dollar currency here) for designing, building, and testing our groups energy capstone demonstration, which will be located on campus for the proposed energy land. We believe that our group capstone will fall under Embry-Riddle’s grant funding for capstones due to the scale of funding needed for ERH2’s energy land demonstration involving hydrogen gas production and storage.

ERH2’s vision and mission is to make a energy model submission for the planned energy land that Embry-Riddle is undertaking. Our model will have two distinct components, the generation system, and the storage system. For generation, our model will use electrolysis to separate water into hydrogen and oxygen gas. The storage will investigate storing hydrogen gas as a solid by having it either absorbed or adsorbed into a solid-state compound at room temperature and atmospheric pressure. The storage system will also investigate a way to easily release the stored hydrogen back as a gas.

ERH2’s system will need several safety systems in place ranging from proper pressure vessels and sealant to hydrogen gas sensors and alarms. If we are awarded with this grant money, a portion of it will go to improving the quality of the safety of our model.