

Mark Roest's challenge details for challenge:

Solar Prize Round 6

Generated at Wed Oct 05 2022 17:34:15 GMT-0700 (Pacific Daylight Time)

Explanation

I am looking for support in competing for Solar Prize Round 6. We are a small company, and will be scaling very fast once we are funded to build the first factory (of many). Significant expertise in areas including the key needs choices will be needed to complete the planning and minimum viable product aspects of the Ready phase, due to the complexity of the assembly of fabricated components, the scale of the markets we need to address successfully, and the need for certifications and government support to commercialize.

Key Needs

- **Technical Analysis (5 / 5):** We need assistance with characterization at the atomic and molecular scale, along with advanced electrochemistry analytic support, to maximize performance, optimize multiple characteristics, identify the best lines of research to achieve the modeled theoretical performance, construct a tighter patent fence, and persuade potential investors who say they need to understand the physics to invest. This overlaps Science, Research and Development.
- **System Design (4 / 5):** We need help with detailed designs for mass-volume automated assembly, and with developing optimized systems for installation of the continuous roll and discrete module form factors we plan to offer. This overlaps Robotics.
- **Funding & Investments (5 / 5):** We need to acquire and modify specific digital printers and prepare our materials to be applied by inkjet printers in very thin layers. We will need to purchase a variety of equipment to support this. We will need to acquire a 5,000-plus-square-foot wet-lab space where we can also do firing, and hire scientists and / or technicians to physically carry out lines of investigation in parallel, to meet the urgency of displacing fossil fuels.
- **Business Development & Commercialization (4 / 5):** We will need to target multiple markets at once, and to do each with maximum effectiveness we will need people who are proficient and connected in each of them. We have a straight-forward path to the solar charging market, but will rely more on domain expertise of people who join us for others.

Matches

1. [Larta Institute](#): 87.67%
2. [Zpryme](#): 87.50%
3. [GoSun](#): 85.64%
4. [New Mexico Clean Energy Resilience and Growth](#): 85.64%
5. [Positive Deviancy](#): 85.59%
6. [HomeMe Group, Inc.](#): 85.43%
7. [BlochSoft Technologies Inc](#): 85.42%

8. [NextEnergy](#): 83.50%
9. [FREEDM Systems Center at NC State](#): 83.50%
10. [Circuit Launch](#): 83.44%