CHAIN REACTION INNOVATIONS

Directions

Please fill out the questions to the best of your knowledge.

Questions with * are mandatory.

Answers are limited to 2,000 characters each.

You cannot save a partially filled out application. You may print a copy for your own records prior to hitting submit.

To preview the questions or work offline, download this PDF version.

* 1. First name

* 2. Last name

* 3. Email address

* 4. Phone number

* 5. City/town

* 6. State/province

* 7. From what institution, in what state, did you graduate?

8. Which of the following best describes your primary affiliation over the past year?

○ Academia

○ Government

○ Industry

○ Start-up

○ Other (please specify)

[   ]

* 9. What are your **primary** areas of technical expertise? (Please select all that apply.)

☐ Biology

☐ Business & Finance

☐ Chemistry/Chemical Engineering

☐ Computer Science

☐ Electrical Engineering

☐ Materials Science

☐ Mechanical Engineering

☐ Physics

☐ Policy & Regulation

☐ Other: Non-Energy

☐ Other: Energy

If Other, please specify:

[   ]

10. What are your **secondary** areas of technical expertise? (Select up to **two** areas.)

○ Biology

○ Business & Finance

○ Chemistry/Chemical Engineering

○ Computer Science

○ Electrical Engineering

○ Materials Science

○ Mechanical Engineering

○ Physics

○ Policy & Regulation

○ Other: Non-Energy

○ Other: Energy

* 11. What is the title of your technology?

This title should describe technology you intend to propose for CRI, not your personal professional title.

[   ]

12. What is your **primary** technology focus area? (For more information please see the DOE Advanced Manufacturing Office's Multi-Year Program Plan.)

( ) Critical materials

( ) Direct thermal energy conversion materials, devices, & systems

( ) Wide-bandgap semiconductors for power electronics

( ) Materials for harsh service conditions

( ) Advanced materials manufacturing

( ) Additive manufacturing

( ) Composite materials

( ) Roll-to-roll processing

( ) Process intensification

( ) Process heating

( ) Smart manufacturing: Advanced sensors, controls, platforms, & modeling for manufacturing

( ) Waste heat recovery systems

( ) Combined heat & power systems

( ) Sustainable manufacturing

* 13. What is the industry sector of the proposed technology (Select all that apply.)

[ ] Fuels

[ ] Materials

[ ] Energy Storage

[ ] Energy Generation

[ ] Chemicals

[ ] Transportation

[ ] Health

[ ] Electronics

[ ] Sensors

[ ] Water

[ ] Environmental

[ ] Food Security

[ ] Other (please specify)

[   ]

* 14. What key words are associated with your technology?

Use commas to separate.

[   ]

* 15. Has this project received outside funding? (Select all that apply.)

☐ Not at this time

☐ Yes, private-sector funding

☐ Yes, SBIR/STTR

☐ Yes, other federal or state funding

* 16. How did you hear about Chain Reaction Innovations? (Select all that apply.)

☐ Word of mouth (e.g., someone told you about the program)

☐ Direct referral (e.g., someone recommended that you apply)

☐ Chain Reaction Innovations communication (e.g., an email, @CRIstartup, or presentation from us)

☐ Argonne National Laboratory communication

☐ U.S. Department of Energy communication

☐ Blog or news article

☐ Polsky Center communication

☐ Purdue Foundry communication

☐ LinkedIn

☐ Other social media

☐ Other (please specify)

[   ]

17. If applicable, who referred you?

[   ]

18. Have you previously applied to one of the Lab-Embedded Entrepreneurship Programs? (Select all that apply.)

○ Cyclotron Road

○ Chain Reaction Innovations

○ Innovation Crossroads

○ No

19. Did you attend a prospective applicant webinar prior to the application period? (Check all that apply.)

☐ Cyclotron Road

☐ Chain Reaction Innovations

☐ Innovation Crossroads

☐ No

20. Personal and Company Twitter Handles

[   ]

21. Link to company website, if available

[   ]

* 22. In what state did you originally launch your start-up in?

[   ]

* 23. Will you have raised more than $1M in private funding at the time of entry into the CRI program?

◯ Yes

◯ No

* 24. Are you a first-time founder?

◯ Yes

◯ No

* 25. Are you a U.S. citizen or permanent resident?

◯ Yes

◯ No

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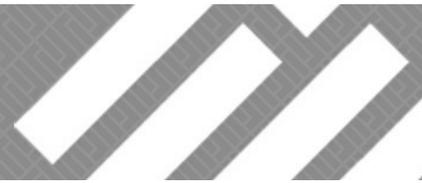
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* 26. Current Status

[↕]

* 27. What is your current affiliation?

e.g. University of Chicago, General Motors, Argonne National Laboratory

[   ]

* 28. Describe your technology and why it is significant in three sentences or less.

(Please share only non-confidential information.)

[   ]

* Any work in connection with CRI must comply with Argonne's Prime Contract, as well as applicable policies, including those pertaining to the avoidance of apparent or actual conflicts of interest.
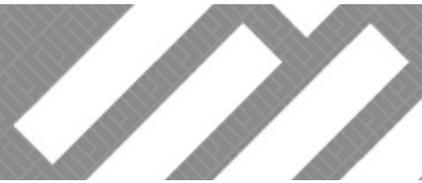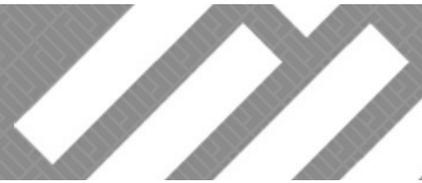
Tell us about yourself: Provide the back story on yourself and your project.

29. Where did the idea originate?

30. What is the current status of your technology and team?

31. Why do you personally want to pursue this effort and what makes you qualified to do so?

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What is your vision? Describe the technology concept you want to pursue.

* 32. What are you trying to do? Articulate your objectives.

* 33. How is it done today, and what are the limits of current practice?

* 34. What societal benefit will your technology have?
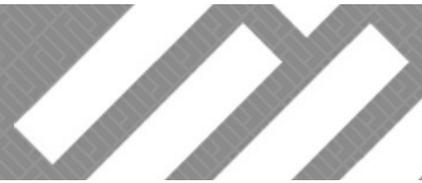
35. What are the risks and the payoffs?

36. How much will it cost? How long will it take?

37. What milestones do you expect to hit during the 2-year CRI program?

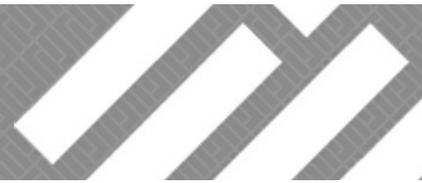* 38. Please also comment on the potential for impact on U.S. energy and manufacturing competitiveness.

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Why do you want to work with Chain Reaction Innovations?

* 39. What most attracts you to the CRI program?

* 40. Which people or facilities at Argonne National Laboratory would be particularly valuable in supporting your work?

What is your business idea?

* 41. What is your value proposition (what want or need does your technology fulfill, for whom, and why is it different from competitors' technologies)?

42. Please describe your go-to-market strategy. What customer base will you target? Name potential suppliers/distributors/manufacturers. Identify the status of any licenses. List barriers to market entry and competitors.

43. Describe the status and future plan for any licenses and intellectual property. Please list pending and allowed patents.

* 44. Do you have any affiliation with Argonne National Laboratory?
Please identify whether you or your company have any affiliation with Argonne National Laboratory, its operator UChicago Argonne LLC, the University of Chicago or Purdue University. If there is no affiliation, please indicate that as well.

45. Do you have any Argonne intellectual property or desire rights to Argonne intellectual property?

◯ No

◯ Yes

46. What else should we know? Please tell us anything else about your idea that you think is relevant.

* 47. Do you have any team members working on the technology that you are applying to CRI with who are also applying to CRI? If so, please provide the names of any other innovators who may be applying for participation in CRI that you wish to consider as partners.

48. Would you be willing to join CRI if your technology team member did not get into the program?

◯ Yes

◯ No

* 49. Please submit a one-page resume in pdf format. (File size limit is 16MB.)

Please use the following naming convention for your file: your name_CRI 2017_resume.pdf

Choose File   No file chosen

* 50. Please submit up to 5 slides or graphics explaining the science and technology driving your innovation. Submit this as a pdf of 16MB or less.

Please use the following naming convention for your file: your name_CRI 2017_technology slides.pdf

Choose File   No file chosen