

ISC3 Corporate Challenge

Sustainable Chemistry for Sustainable Development

Introduction

The International Sustainable Chemistry Collaborative Centre (ISC3) presents a unique opportunity for corporations to address critical industrial challenges through innovative, sustainable chemistry solutions. By collaborating with ISC3 and leveraging its global network of partners, corporate participants can significantly advance sustainable development goals (SDGs) and the 2030 Agenda.

Objectives

1. **Engage Innovators and Start-ups:** Facilitate the resolution of real industrial challenges through sustainable solutions, accelerating resource-intensive R&D efforts.
2. **Enhance Visibility:** Position Corporate Partners and ISC3 as leading advocates for sustainable chemistry, promoting their contributions to the SDGs globally.
3. **Advance Regional Discussions:** Foster dialogues on technological needs and opportunities in sustainable chemistry across various sectors and value chains, contributing practical solutions to pressing issues.
4. **Create Long-term Value:** Promote a circular economy mindset, driving the creation of new business opportunities and job growth.
5. **Stimulate Active Engagement:** Establish platforms for ongoing involvement in sustainable chemistry initiatives.

Corporate Challenge Types

Type 1: Single Corporate Challenge

- **Sponsor:** One corporate entity.
- **Scope:** Defined by the sponsoring corporate.
- **Award:** Set by the sponsoring corporate.
- **Facilitation:** ISC3, with support from partners and collaborators in the ISC3 Spiderweb Network
- **Decision:** Final winner selection and follow-up by the sponsoring corporate.

Type 2: Collaborative Corporate Challenge

- **Sponsor:** A group of corporate entities (e.g., industry sector or application field).
- **Scope:** Defined collaboratively by the corporate group.
- **Award:** Set by the corporate group.
- **Facilitation:** ISC3, with support from partners and collaborators in the ISC3 Spiderweb Network

- **Decision:** Final winner selection and follow-up by the corporate group.

Leveraging the ISC3 Global Startup Service "Spiderweb Network"

ISC3's collaboration with the Global Startup Service "Spiderweb Network" significantly enhances the challenge's impact. By leveraging extensive networks and complementary expertise, this partnership fosters superior solution scouting, increased corporate engagement, and effective addressing of key industry problems. ISC3 will manage the platform setup, outreach, and judging processes, either independently or with support from partners in the ISC3 Spiderweb Network. These partners can collaborate on any aspect of the initiative, further amplifying its impact.

Timeframe

Challenges and their timeframe are tailored to the complexity of the innovation topic. Typically, a moderate innovation challenge spans a 6-month period with one call round.

Potential Challenge Fields

- Chemicals and materials (safer substitutes, new synthesis routes)
- Chemicals management
- Bio-economy (biotechnological synthesis, valorisation of renewable/raw materials or waste)
- Pharmaceuticals and medical technologies
- Contributions to green energy, energy efficiency, and climate change mitigation
- Chemical engineering solutions for water management and sanitation
- Resource efficiency (reduction of raw material use)
- Food security and safety (food/feed, fertilizers, packaging)
- Green products
- Waste management and valorisation
- Innovations in construction, urbanization, textiles, agriculture, mobility, energy supply
- Interdisciplinary innovations (chemistry and digitalization, physics, life sciences, etc.)

Corporate Benefits

- Rapid, effective solutions to complex business problems
- Enhanced visibility and positive brand image as leaders in sustainable chemistry
- Interim access to expert networks within the challenge field
- Implementation of pilot projects
- New business contacts via ISC3's Spiderweb Network
- Potential cost reductions and new business opportunities

Awards for Innovators

- **Monetary Prizes:** Financial rewards for top-performing innovators.

- **Mentorship:** Roles as mentors, experts, or ambassadors within the ISC3 network.
- **Career Opportunities:** Employment or internships with corporate partners.
- **Collaborative Projects:** Joint pilot projects between corporates and innovators.
- **Media Coverage:** Visibility through ISC3, corporate, and general media channels.

Conclusion

By participating in the ISC3 Corporate Challenges, corporations can not only address pressing industrial challenges but also contribute to sustainable development on a global scale. This initiative offers a platform for innovation, collaboration, and long-term value creation, making it a compelling opportunity for corporations committed to sustainable chemistry.

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