

# GOLD LEVEL PROJECT

LAUNCHES OCTOBER 2022





# INDUSTRIAL CADETS GOLD LEVEL PROJECT

The last academic year has been yet another period of transformation and changes to our programmes that we deliver at EDT. However, we now look to the future of 2022/2023 with focus on dedicating our resources to helping young people build and recover after an unpredictable few years.

During the 2021/2022 academic year, we successfully delivered this scheme to 100 teams across the country and feedback was overwhelmingly positive; teachers greatly valued the efforts made by EDT and mentoring companies to continue to provide students with valuable STEM experience and industry engagement during this continuing period of transition.

## LISTENING TO OUR STAKEHOLDERS

Following the successes of recent years, we are excited in 22/23 to continue encouraging in-person interaction alongside making the most of virtual opportunities:

- Increased opportunities for in-person mentoring sessions in school, whilst retaining the option for virtual sessions where convenient or preferred.
- Physical Celebration events where Bronze & Gold teams from every region showcase their work and receive awards
- Access to a variety of live Q+A Webinar's from Industry role models further enriching the student experience and providing additional insights into STEM opportunities.

Over 95% of recent teacher feedback reported that the Project provided students with material for their **personal statements, UCAS applications and interviews**, while the majority chose to participate because of the **Industrial Cadets accreditation**.

## INDUSTRIAL CADETS GOLD PROJECT 2021-22

The 2022/23 Industrial Cadets Gold Project re-incorporates and retains the best of the previous models. Launching in October, teams of Year 12 or S5/6 students will spend 20 weeks partnered with industry to complete a STEM project.

Whilst helping students to develop key skills for learning, life and work and inform their subject choices and future career paths, it allows companies to engage with local schools, raise their profile, inspire the next STEM generation, engage with the future talent pipeline and provide CPD opportunities to their staff team, all within the nationally accredited Industrial Cadets Award framework.

At the end of the scheme, students graduate as Gold-level Industrial Cadets, a nationally recognised award that students can use as evidence of their experience and take forward to complement their future applications and career journeys.

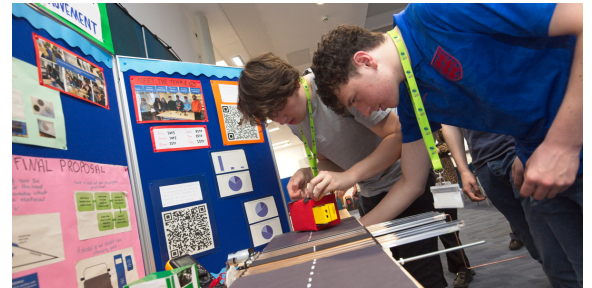




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## THE BENEFITS

The following are some of the key advantages that your school or college will gain from this project, and by participating in this scheme your students will have the opportunity to engage with a variety of industries whilst working on a structured programme aligned to Gatsby Benchmarks/Careers and Education Standards.



### Industry-Specific or STEM Projects –

The opportunity to work on a real-life project dictated by industry, or choice from our ‘off the shelf’ project briefs on pertinent STEM themes such as the environment and renewable energy.

### Interaction with Industry Professionals –

Teams meet and interact with their very own STEM role model who provides guidance, support and insight into industry throughout the project, whilst strengthening the school’s links with industry.

**Flexible Engagement** – A flexible mixture of physical and virtual elements, from virtual mentor meetings and live webinars to in-school mentor meetings and company visits, streamlines participation and reduces physical event logistics for the school.

### Insight into Higher Education and Career Paths

- Offers higher education and careers sessions to increase awareness and understanding of future pathways and options available to students, and real experience of university through the residential workshop.

### Insight into a Real Workplace

- A physical or virtual company tour from your partnering company showcasing key projects and sites provides further industry context and early insight into the workplace.

### Skill Development and Confidence Building –

Provides experience in presenting a solution in a variety of formats, including a formal written technical report and presentation to a panel of senior industry professionals, enabling young people to express their views on important global issues. It also measures and builds key skills such as communication, teamwork, negotiation, innovation, critical thinking, and problem solving.

**A Structured Programme** - Captures key learning skills and outcomes through a guided structure and assessment process, project management and a structured skills development workbook.

**Measured Learning Outcomes** - Meets the Gatsby Benchmarks/Careers standards and aligns to the Sustainability Development Goals and National Curriculum, exploring science and technology within an industrial context.

**A Safe Online Environment** – All mentors complete safeguarding training with EDT and can utilise the online environment for easy and secure check-in with students through the project. EDT also ensures that all mentors have current enhanced DBS checks.

**Broader engagement** - As well as interaction with your mentor(s), students have the opportunity to engage virtually with a wider variety of graduate and professional engineers, scientists and technologists from industry, and higher education institutions, enhancing links not limited by geography.



# INDUSTRIAL CADETS GOLD LEVEL PROJECT

## ACCESS TO ALL

Students from all geographical areas and backgrounds

## STUDENT COMMITMENT

20 weeks  
50 project hours  
Themed webinars  
10 mentor sessions

## T H E M E S

Your own partner company's project brief or ready made projects on the themes of:  
Renewable Energy & Sustainability

## T E A M

6 x Year 12 (S5/6) students

## WHAT'S INVOLVED

**Real-Life STEM Projects** - Teams work on a project dictated by their partnering company specific to their industry needs, or a ready-made project surrounding a current STEM theme such as renewable energy, digital automation and circular economy.

### Virtual Launch Event

- Attending a national virtual launch event provides an introduction to the scheme, a personality quiz, project management guidance, the opportunity to determine project choices, and an initial meeting between student teams and supporting industry mentors.
- Mentors and teachers attend a virtual 'training' session in advance to understand their respective roles in supporting the project, receive a safeguarding induction, meet other participants, and ask questions.

**Weekly Team Meetings** - Students meet regularly with their teacher's support to work on their project, assign tasks and track progress.

### 10 Mentor Sessions (10 hours) -

A STEM professional meets your students face-to-face in school or virtually throughout the project, providing guidance and industry insight. EDT support students on how to get the most out of their mentor.

**Optional Company Site Visit** - Where company facilities and Health & Safety measures allow, company visits may be organised for school teams, subject to dates and availability of both the school and the company. If unable to arrange a physical site visit, companies may offer a virtual tour or recorded company material where available.

**A Residential University Workshop** - A two-day stay at a leading university such as Cambridge or Loughborough to utilise their facilities and staff team to create the project model.

**Project Assessment** - Student teams produce a written report and model of their solution and deliver a presentation to a panel of industry experts, with the support of a student workbook. Assessment criteria is based on 5 core elements including technical skills, project management and communication, data management, sustainability and the understanding of business needs.

**Graduation & Celebration Events** - There will be virtual assessments and graduations, followed by regional events where projects are showcased, awards are presented and student achievements are celebrated.

### Interactive EDT Webinars

- **Project Management Masterclass** - delivered by a professional on project management skills
- **Industry Role Model Q&A** - students can ask questions live to industry professionals from a variety of STEM backgrounds.
- **Careers** - talks on apprenticeships and graduate opportunities within industry.
- **Higher Education** - covering various pathways into STEM courses and careers



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## THE PROJECT OUTCOMES

There are **four** things that student teams should produce, using guidance from a team workbook. Some are completed together in weekly meetings and others independently.

### 1. A Written Report

A written report is the most substantial part of the project where teams demonstrate their planning, research, ideas and solutions in detail.

### 2. A Model or Poster

A physical/digital model that provides a visual representation of the team's solution and is showcased to industry experts and graduation event attendees.

### 3. A Team Presentation

Teams deliver a 5-10-minute presentation to industry assessors at the graduation event about their project and how they came up with their chosen solution.

### 4. A Student Workbook

A guidance and self-reflection tool for each student to use individually, providing space to track progress and actions as they progress through the project and record reflections.

Administration fee per team -  
£385+VAT

Please contact EDT for more information on:  
[goldproject@etrust.org.uk](mailto:goldproject@etrust.org.uk)



"I enjoy this every year and watching the team develop over the period of the project is very satisfying. Working with excellent mentors is what makes it even more successful" - 2021-22 Gold Teacher

"I was able to learn more about technology and develop soft skills such as presentation skills and planning/organising through regular mentor meetings and discussing with team members. Overall, I really enjoyed this experience and learned so much from it as it has helped me develop my skills as well as my confidence." - 2021-22 Gold Student

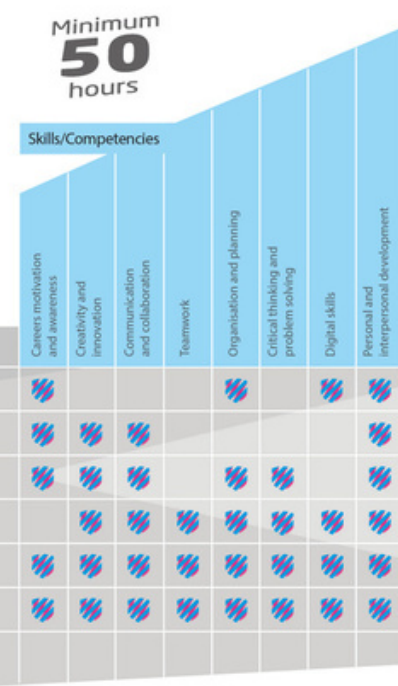
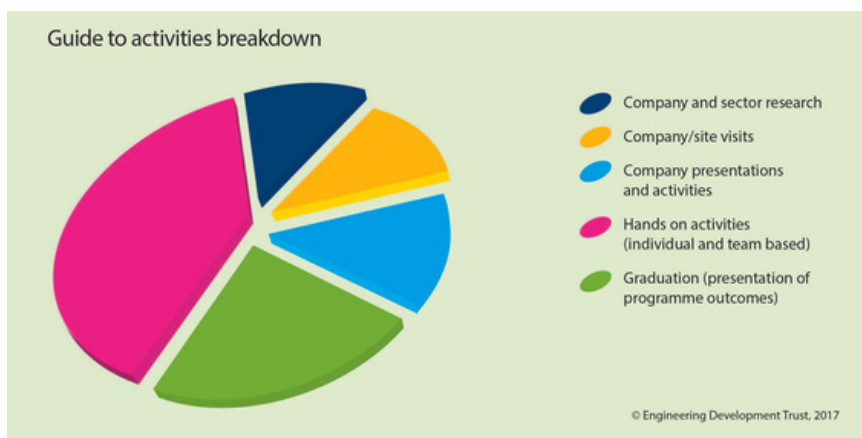


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## INDUSTRIAL CADETS

Industrial Cadets is the launchpad for thousands of young people on an accredited pathway towards achieving bright STEM futures. Inspired by its Patron, HRH The Prince of Wales, Industrial Cadets is the “Kitemark” award for young people engaging with the world of work, providing much needed insights and real-life experiences.

The graphic below outlines the activities involved in the Industrial Cadets Gold project and the skills and competencies which students develop.



### Gold Framework



Programme Components	Careers motivation and awareness	Creativity and innovation	Communication and collaboration	Teamwork	Organisation and planning	Critical thinking and problem solving	Digital skills	Personal and interpersonal development
Company and sector research	✓				✓		✓	✓
Company/site visits, presentations and activities	✓	✓	✓					✓
Mentor/role model interactions	✓	✓	✓		✓	✓		✓
Hands on problem solving and critical thinking activities		✓	✓	✓	✓	✓	✓	✓
Graduation (report/log/display/presentation)	✓	✓	✓	✓	✓	✓	✓	✓
Evaluation	✓	✓	✓	✓	✓	✓	✓	✓

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Industrial Cadets has a progression of levels: **Challenger**, **Bronze**, **Silver**, **Gold** and **Platinum**. Students have the opportunity to take part in other experiences with EDT in the future to gain accreditation at different levels.

