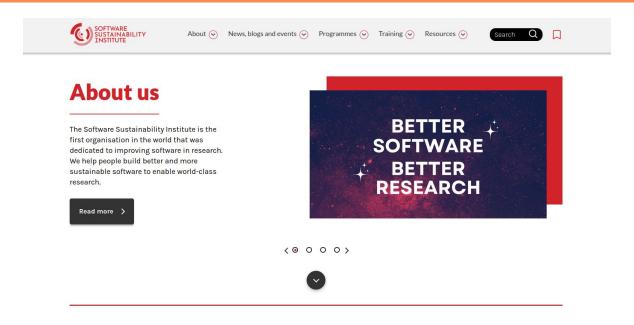
# Green DiSC certification





### Software Sustainability Institute



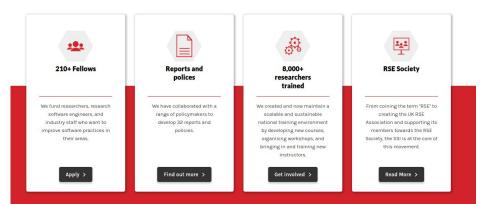


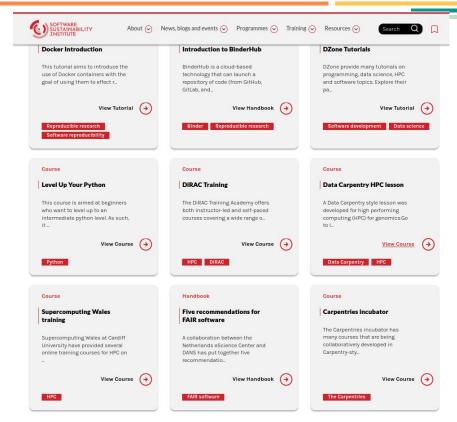
Settled in Edinburg

https://www.software.ac.uk



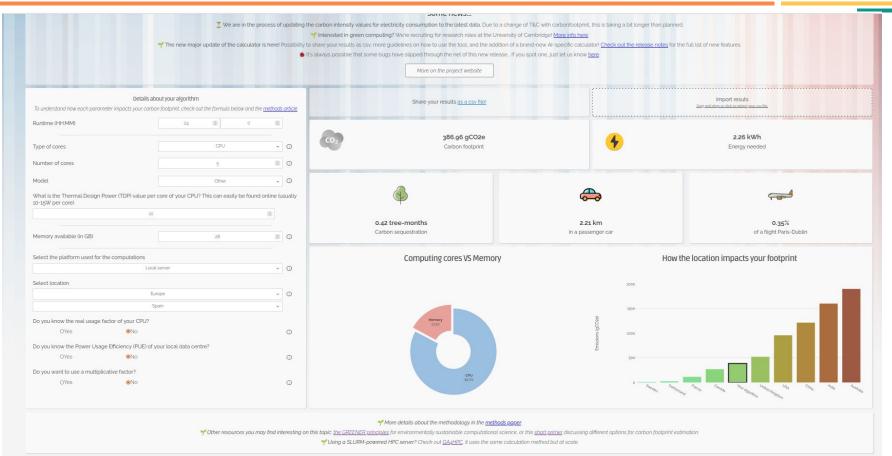
Lots of resources for scientific computing and training offered in UK





### Other tools provided for environmental purposes

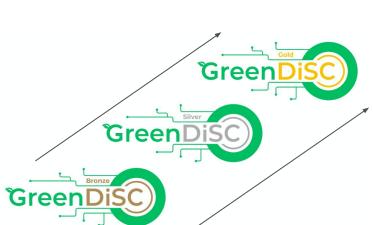








"Computing is an essential component of modern research, and it comes with significant, but not always well-understood, environmental impacts. The climate crisis is urgent, and it is becoming increasingly apparent to scientists using computing that the resulting environmental effects should be taken into account and mitigated where possible - Green DiSC introduction

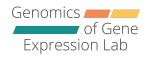




One evaluation per step

11/05/2021

#### Who is Green DiSC for?



#### **Groups:**

- A fully computing research group (e.g. computational biology, astrophysics, statistics, machine learning, engineering, chemistry etc.).
- A research software engineering team.
- A group doing both wet lab and dry lab research.

#### Central teams:

- Organisation's central sustainability team.
- Department's sustainability representative.
- IT team.

11/05/2021

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#### In Short:

Any organ or organism who spends a significant amount of computer time or computer resources or platforms of the institution that hosts them.

11/05/2021

## The vision

**Evidence-based** 

3 levels of certification: Bronze, Silver, Gold

Free and open access

**Community-based** 

**Iterative** 









#### **General Criteria**

For groups	For Central teams	
Green DiSK Representative		
Protocol: Computing sustainability procedures for newcomers		
Dissemination of the Green DiSC program		
Shared sustainability and information with other groups	Central institutional repository for sustainability resources	



### **Offices Criteria**

For groups	For Central teams	
Inventory of office computing hardware	Inventory of Purchasing streams*	
Identification of unused computing equipment	-	
Electronic waste processing streams		



### **Data Storage Criteria**

For groups	For Central teams
Inventory of main data resources	Inventory of (Large) data resources
Protocol: User data directory cleaning	Protocol: regular centralized cleaning and inform groups about storage used
	Template and training resources for data management available for groups



### **Compute Criteria**

For groups	For Central teams	
Inventory of remote infrastructure		
Protocol: User data directory cleaning	Protocol: regular centralized cleaning and inform groups about storage used	
Training for green computing	Centralized training for green computing	

### Silver and Gold criteria: Not yet published, but...

# **About the criteria**



### Some examples for Silver

#### Compute

Review of HPC infrastructure

Regular carbon tracking for computing

Official policy on sustainability

#### Offices

LCA as part of IT purchase Robust e-waste processing Equipment is being repurposed

#### Data storage

Review of backup strategies Streamlining of large shared data resources

#### General

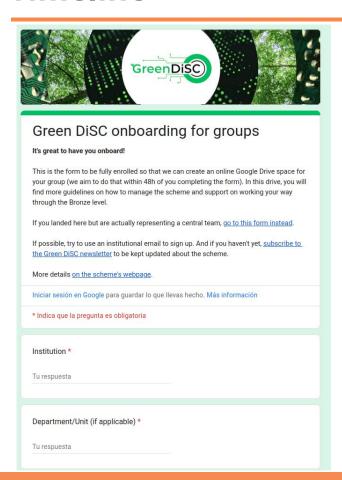
Sustainability becomes part of teaching Missing resources are identified centrally





#### **Timeline**





Form that will give access to more resources and help to achieve the criteria

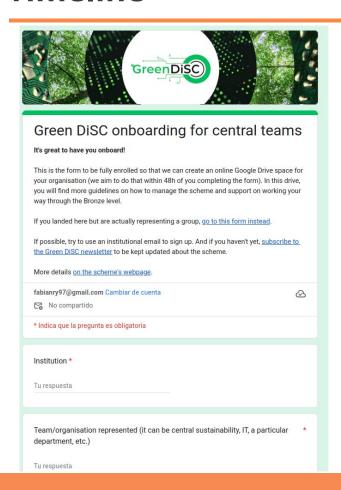
Next deadline for applying:

• July 31st, 2025

Future deadlines to be announced, estimated every 3-4 months

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# After submitting the form



#### External revisión:

- Reviewered by other candidates
- That means, every group or central team applying will have to review other candidates (only once for Bronze criteria)



# Thanks for your attention