GREEN CODE LAB PRESENTS

GREEN CODE LAB CHALLENGE

"1ST GREEN CODE LAB INTERNATIONAL ECODESIGN SOFTWARE CHALLENGE"

From November, 27th to 29th
In more than 10 cities in real time in France and Europe

Free registration for students:
greencodelab-challenge.org

PROPOSED BY

CO-ORGANIZED BY

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I - THE EVENT - 27 to 29 November 2013

The event

- The 1st Green Code Lab International EcoDesign software challenge is an event proposed by the Green Code Lab and ESAIP Angers, and co-organized by the Green Lab Center, EPSI Nantes and Open Odyssey. It aims to promote the software ecodesign to coders, IT lecturers, researchers and our students.

- Dates: (48H non-stop) from the 27th November 7 p.m. to the 29th November 7 p.m.

Objectifs

- Demonstrate the importance of eco-design software in the world of business and higher education
- Show gains/benefits
- Demonstrate the dynamic between schools and companies uniting around an innovative theme
- Work with a network of international partners (European universities) in GE such as ESAIP to promote economic activity and strengthen regional attractiveness
- Promote the Green Code Lab and find new partners for research and ecodesign
- Build on the Green Capital Nantes a movement and the emergence of co-operative structures – Green Lab Center in 2013 lab-demonstrator
- Build on the momentum with our partners on the subject of eco-design software started by the meeting in Nantes in October 2012 and demonstrated a strong regional position on this issue (http://www.emn.fr/z-info/eco-conception-logiciels/)
- Take advantage of the challenge to develop Green IT actions all year round, around a R&D project with the students winners of the challenge.
Contest activity

- A single topic is given to all applicants at the same time. The theme is oriented to «Code optimization / Green Patterns.»

Subject: Optimize an existing open source program by taking into account best practice software architecture and a more qualitative and efficient resource and energy usage (Software EcoDesign).

- Project team composed by 4-5 Students
- 48H non-stop:
  - Wednesday November 27th 2013 : Welcoming participants – Introduction
  - 24 h for the first draft by continuous integration every hour
  - Thursday November 28th 2013 : (Video) Conferences along the contest
  - Thursday November 28th 2013 – 6 pm : 2 h for the first evaluation
  - Friday November 29th 2013 : (Video) Conferences along the contest
  - 16 h to improve the first Draft
  - Friday November 29th 2013 – 1 pm : 4 h to consider and evaluate
  - Friday November 29th 2013 – 5 pm : 2 h to recognize, promote partners and winners.
  - The teams organize their work as they wish to ensure the continuity of the work during the competition
- Double evaluation:
  - Quality of code with “skills platform”
  - Energy consumption with the Web Energy Archive platform (Green Code Lab)
  - Measurement of the ecodesign level by using Greenspector
- Indicators:
  - Wh benefits
  - Mb benefits
  - Number of defects
- Intermediate way-points are required for candidates to ensure the dynamic of competition (5 key questions, keywords walls on the Net : candidates and spectators)
- Conferences and workshops can to host the competition anywhere
- Communication mainly English (French on site)
- Open to international competition
I - Technical part

- The school which participate make competition venues available

- Integration of the project into the student’s curriculum

- Organization during the competition:
  - Each site is responsible for the activities, local hospitality and centralized means of communication (video resources, internet activities, centralized activities)
  - Remote video control = Video Webcast and archive

- Competition Website before competition (registration), during and after (results, communication of best practices and benefits)

- An event organized in real time in more than 10 cities in France (Nantes, Angers, Rennes, Brest, Dijon, Arras, Montpellier, Lyon, Paris, Bordeaux) and Europe (Trier Germany, Aalborg Denmark, Madrid Spain) and broadcast in live on the web.
  - To be able to contribute thoughts to idea competition candidates
  - To propose improvements to eco-design contest candidates.
  - To minimize travel via this demonstration of technology = Green IT 2.0

Reward: A trip in San Francisco for the winners

- At the end of the challenge, the most performance team, will win a trip in the Silicon Valley in order to meet students and professors working on the Green IT field.

- This meeting will start a collaboration with San Francisco all year round around a R&D project proposed by the Green Code Lab to the winners of the Green Code Lab Challenge.
GREEN CODE LAB
Green Code Lab (www.greenCodeLab.fr) is a place of experimentation for green patterns and associate tools.

ESAIP ANGERS
The ESAIP Group is both an engineering school and a higher institute (Bac +5) specializing in the fields of information technology, security and risk prevention, which has established the first degree/award in Sustainable engineering in computer engineering (integration of eco-design software)
www.esaip.org

GREEN LAB CENTER
The Green Lab Center (www.greenlabcenter.com) promotes, spreads and values the practices, the research projects and the Green IT technologies with the world of the education, the research and the companies.

GROUPE EPSI
EPSI is an engineering school specialized in Information technologies, present in Nantes and in 7 other towns located in France, which ensures the acquisition of the fundamental technical knowledge and proximity with professionals.
www.epsi.fr

OPEN ODYSSEY
Open Odyssey association is connecting universities and companies around sustainable projects. The Green IT sector is one of the principle theme developed by Open Odyssey in the curriculums of the universities
www.open-odyssey.org
II - THE PARTICIPANTS

The inscriptions are still open > http://greencodelab-challenge.org/index.php/en/
For the moment, there are the school which registered some students team to participate to the green code lab Challenge.