



**US Army Corps
of Engineers®**

ENGINEERING AND CONSTRUCTION BULLETIN

No. 2010-26

Issuing Office: CECW-CE

Issued: 24 Nov 2010

Expires: 30 Mar 2011

Subject: Emerging professionals called to apply for opportunity to work on the 2030 USACE Integration Project that will be entered into the Holcim Awards Competition for Sustainable Construction.

Applicability: Directive

1. The purpose of this ECB is to announce the commencement of the application period for the 2030 USACE Integration Project. The suspense for applications for the subject project is December 10, 2010.
2. To submit an application, completely fill out the document labeled 'APPLICATION' on the website listed below. Send an email with the application as an attached PDF document to Lyndsey.N.D.Pruitt@USACE.Army.Mil. The subject line should state: LAST NAME, FIRST NAME: APPLICATION. For example, *GRAY, AMBER: APPLICATION*.
3. Eligibility requirements are as follows:
 - a. Currently employed by the US Army Corps of Engineers.
 - b. Desire to imbibe the USACE construction process with ingenuity, effectiveness, and cutting edge technology that will produce a more efficient and functional product; not restricted by construction traditions, policies, or procedures.
 - c. Authority & desire to commit a minimum of 10 hours per week up to 40 hours per week billed to the project through 30 March 2011.
 - d. Ability to participate in weekly video teleconferences or teleconferences.
4. Through pre-established rating criteria, the U.S. Army Corps of Engineers will select a team of dedicated, innovative and talented emerging professionals to design a winning solution. An explanation of the procedures for evaluating and selecting applicants is also available on the website listed below under the folder titled 'USACE Team Application Materials.' Evaluation of the nominees will be based on the following factors:
 - a. **Passion for the mission:** the level of desire to participate; the ability and willingness to dedicate oneself to the 2030 USACE Integration Project and learn about new technology / software.

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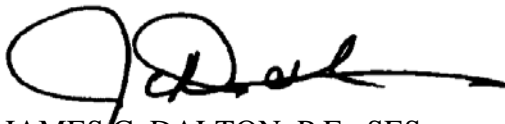
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- b. **Time commitment:** includes the amount and type of hours the applicant is willing to commit. The willingness and the availability of the applicant to attend on-site charrettes.
- c. **Diversity:** the USACE intends to impact the largest geographic area possible by selecting a team from a variety of districts and divisions, including overseas.
- d. **Experience:** includes research, work, and competition experience both from within the Corps of Engineers and in the private and education sectors. Experience provided should highlight the applicant's ambition, embracement of technology, and ability to hunt creative results.

5. Complete information on the 2030 USACE Integration Project, including the project management plan and the description for the design competition is available under *Initiatives* on the *2030 USACE Integration Competition* home page on the Technical Excellence Network (TEN) and can be found at <https://ten.usace.army.mil/TechExNet.aspx?p=s&a=Initiatives;13>.

6. HQUSACE POC for this action is Mrs. Lyndsey N. D. Pruitt, HQUSACE (CECW-CE-D), 202-761-8900, Lyndsey.N.D.Pruitt@USACE.Army.Mil

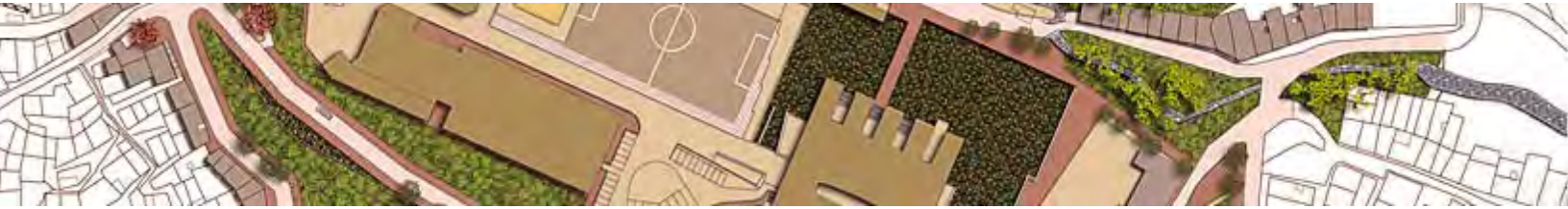
We strongly encourage each Commander/Director to personally support the 2030 USACE Integration Project and nominate emerging professionals to apply who promote these high standards of professional excellence.



JAMES C. DALTON, P.E., SES
Chief, Engineering and Construction Division
Directorate of Civil Works



W. CHRIS HINTON-LEE, AIA, SES
Chief Architect of USACE
Regional Business Director, CESAD



2030 USACE Integration Project. **Project Description.**

For detailed information go to <https://ten.usace.army.mil/TechExNet.aspx?p=s&a=Initiatives;13>

Introduction: As the 2005 Base Realignment and Closure requirements are fulfilled, the Army has called on the Corps of Engineers to validate that all Army objectives are met equally and to the fullest extent possible. In the 2010-2017 IMCOM Campaign Plan, General Lynch dedicates one of six Lines of Effort to Energy with the following goals:

ENERGY 1 – Reduce energy and water consumption

ENERGY 2 – Increase energy and water efficiency and modernize infrastructure

ENERGY 3 – Improve the development of renewable and alternative energy, and ensure access to energy supplies

ENERGY 4 – Improve the development of renewable and alternative energy for vehicle fleet mobility fuel

Additionally, the imperatives for net-zero energy, net-zero water, and net-zero waste are derived from and driven by a fundamental alignment with other Strategic Guidance starting with the President's Management Agenda (PMA), Quadrennial Defense Review (QDR), The Army Plan (TAP), and the Army Campaign Plan (ACP).

Foundation: This project is a supplement to an original study, *Integration of Energy / Sustainable Practices into Standard Designs* which focused on utility reduction improvements and design modifications for selected standard design types. The study developed energy models for the COF, TEMPF, DFAC, UHPH, and HQ BGD to support a set of changes to the design of the facilities based on compliance with regulations, mandates, and executive orders that are applicable for the fiscal year 2013. Some of these enhancements are 65% energy reduction, 30% domestic water reduction, and 50% waste water reduction over baseline in addition to many others. Through the previous study it was acknowledged that once the Corps of Engineers has met the requirements for energy of 2013, we will already be behind. A call was made for a forward-thinking approach that not only analyzed energy but water and waste on a range variety of metrics.

The 2030 USACE Integration Project: To maximize net gains on a systems, building, and community scale that will result in the construction of a net-zero energy, net-zero water, and net-zero waste area development which meets or exceeds specified sustainability and energy mandates up to the Fiscal Year 2030.

Due to the requirement for diverse and creative solutions to make the leap in utility and waste reductions and the desire to infiltrate the largest geographic area of the Corps of Engineers with experts trained in the latest energy modeling software, life cycle cost analysis, and sustainability mandates

USACE has found the best vehicle for execution is to enter an open design competition whose prompt mirrors our energy and sustainability goals.

As the mission is to develop a new process based on modern thought and the latest technology, emerging professionals are being solicited from all Corps Districts and Divisions. The emerging professionals will work from their home office and appoint a mentor physically located in their vicinity to review and guide the employee's work. Team members on the project will be required to attend all Video Teleconferences and as many site visits as possible.

Funding: The project is fully funded for labor, materials, and TDY. Each applicant will meet with Lyndsey Pruitt to discuss the desired level of participation. They will develop a schedule based on the applicants existing workload. The schedule will be converted into a base sum of hours. Head quarters will MIPR the applicant's base funding to their district so that a charge code can be applied. A teleconference is required of all new applicants with their financial POC in attendance to discuss the process and answer any questions.

Supervisors: Each applicant is asked to identify a mentor. This can either be their supervisor or another more senior professional located in the same geographic area. In addition to developing a working relationship and transferring knowledge, the mentor will be the POC for the applicant in answering basic design / construction issues such as graphical standards, USACE business process, and questions regarding our customers. The mentors will not attend the off-site charrettes nor will they be funded through the project. They are welcome to attend the video teleconferences / teleconferences.

Schedule: The project is broken into two deliverables: the design competition and the final project for the installation. This application and project description above are solely for the design competition portion which is due on 23 March 2011. The team will kick off in mid December 2010 and follow with several educational webinars and workshops. A few team members will be asked to attend an Energy Efficient Technologies summit in Las Vegas on January and an on-site design charrette is scheduled for late January for all to attend. February will focus on design development and nailing down the solution. March will be dedicated to production with pencils down on 15 March 2011.

For the Applicant: What will you get out of being on this team?

1. Winning the most prestigious international design competition for sustainable construction of the 21st century.
2. Presenting the competition entry at the American Institute of Architects conference in New Orleans, LA in May 2011.
3. Presenting and working with the Mr. Dalton, P.E. SES, USACE Chief of Engineering and Construction and many others in senior leadership position across USACE and the Army.
4. Opportunity to change the Corps of Engineers design and construction process.
5. **The following training will be paid for by HQ:**
 - a. Master Planning & Eco Districts \$1,800.00
 - b. Energy Modeling (EcoTect & Energy Plus) \$3,500.00
 - c. LEED Prospect Course \$1,700.00
 - d. Energy Efficient Technologies Workshop \$1,500.00
 - e. BIM Storm \$750.00
 - f. Design Charrette &7,500.00
6. Development of peer relationships across geographic districts.
7. Ability to represent your office as an expert in an emerging and technical field.

Introduction Webinar Schedule

<https://connect.dco.dod.mil/usaceintegrationproject>

Date	Time	Toll Free	International	Host Code	Participant Code
01 DEC 10	14:00 EST	(888)622-5357	(505)242-2204	540996	651274
02 DEC 10	10:00 EST	(888)285-4585	(888)285-4585	928946	733805
03 DEC 11	12:00 EST	(888)830-6260	(505)242-2420	608457	719112
06 DEC 11	14:00 EST	(888)830-6260	(505)242-2420	985594	235284
07 DEC 11	10:00 EST	(888)622-5357	(505)242-2204	956541	461856
08 DEC 11	12:00 EST	(888)622-5357	(505)242-2204	514523	835699
09 DEC 11	14:00 EST	(888)830-6260	(505)242-2420	131785	881008
10 DEC 11	10:00 EST	(877)322-9654	(954)797-1657	754421	145959

Connect to the PowerPoint Presentation at:

<https://connect.dco.dod.mil/usaceintegrationproject>