

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**FORM S-8**
REGISTRATION STATEMENT
UNDER THE SECURITIES ACT OF 1933**ESCO TECHNOLOGIES INC.**
(Exact name of registrant as specified in its charter)Missouri
(State or other jurisdiction of incorporation or organization)43-1554045
(I.R.S. Employer Identification No.)9900A Clayton Road
St. Louis, Missouri 63124
(Address of principal executive offices, including zip code)**Esco Technologies Inc.**
2013 Incentive Compensation Plan
(Full title of the plan)Alyson S. Barclay, Esq.
Senior Vice President, Secretary and General Counsel
9900A Clayton Road
St. Louis, Missouri 63124
(314) 213-7200
(Name, address and telephone number, including area code, of agent for services)

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12-b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer (do not check if a smaller reporting company)Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of securities to be registered	Amount to be registered (1)	Proposed maximum offering price per share (2)	Proposed maximum aggregate offering price (2)	Amount of registration fee (2)
Common Stock, par value \$0.01 per share	1,449,107 shares	\$40.99	\$59,398,895.93	\$8,102.01

(1) This registration statement shall also cover any additional shares of common stock which become issuable under the plan described herein by reason of any stock dividend, stock split, recapitalization, merger, consolidation or reorganization of or by the registrant which results in an increase in the number of the registrant's outstanding shares of common stock or shares issuable pursuant to awards granted under the plan.

(2) Computed pursuant to Rules 457(c) and 457(h) under the Securities Act of 1933, as amended, (the "Securities Act") for the sole purpose of determining the registration fee. The proposed maximum offering price per share is calculated as the average of the high and low selling prices of the registrant's common stock as traded on the New York Stock Exchange on February 6, 2013, a date within five business days of the filing of this registration statement.

Part I

INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

Item 1. Plan Information.*

Item 2. Registrant Information and Employee Plan Annual Information.*

* The documents containing the information specified in Part I of Form S-8 will be sent or given to employees as specified by Rule 428(b)(1) of the Securities Act. Such documents need not be filed with the Securities and Exchange Commission (the "Commission") either as part of this registration statement or as prospectuses or prospectus supplements pursuant to Rule 424 of the Securities Act. These documents and the documents incorporated by reference in this registration statement pursuant to Item 3 of Part II of this registration statement, taken together, constitute a prospectus that meets the requirements of Section 10(a) of the Securities Act.

Part II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference.

The following documents previously filed by the registrant (the "Company") with the Commission pursuant to the Securities Exchange Act of 1934, as amended (the "Exchange Act") are incorporated by reference in this registration statement:

- (a) The Company's Annual Report on Form 10-K for the fiscal year ended September 30, 2012, filed on November 29, 2012.
- (b) The Company's Quarterly Report on Form 10-Q for the quarter ended December 31, 2012, filed on February 8, 2013, and the Company's Current Reports on Form 8-K filed October 9, 2012, November 13, 2012 and February 7, 2013.
- (c) The description of the Company's Common Stock contained in the Company's Registration Statement on Form 10 filed under the Exchange Act, as amended under cover of Form 8 filed on September 27, 1990, as further amended under cover of Form 10/A on March 3, 2000.

All documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, prior to the filing of a post-effective amendment which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference in this registration statement and to be part hereof from the date of filing of such documents. Any statement contained in a document incorporated or deemed to be incorporated herein by reference shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that it is modified or superseded by a statement contained in any other subsequently filed document which also is incorporated or deemed to be incorporated herein by reference.

Item 4. Description of Securities.

Not applicable.

Item 5. Interests of Named Experts and Counsel.

Not applicable.

Item 6. Indemnification of Directors and Officers.

The Company is a Missouri corporation. Section 351.355(1) of the Revised Statutes of Missouri provides that a corporation may indemnify an officer, director, employee or agent of the corporation in any action, suit or proceeding (other than an action by or in the right of the corporation) against expenses (including attorneys' fees), judgments, fines and settlement amounts actually and reasonably incurred by him in connection with such action, suit or proceeding if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation and, with respect to any criminal action, had no reasonable cause to believe his conduct was unlawful. Section 351.355(2) provides that the corporation may indemnify any such person in any action or suit by or in the right of the corporation against expenses (including attorneys' fees) and settlement amounts actually and reasonably incurred by him in connection with the defense or settlement of the action or suit if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, except that no such person may be indemnified in respect of any matter in which he has been adjudged liable for negligence or misconduct in the performance of his duty to the corporation, unless authorized by the court. Section 351.355(3) provides that, except as otherwise provided in the articles of incorporation or the bylaws, the corporation shall indemnify any such person against expenses (including attorneys' fees) actually and reasonably incurred by him in connection with the action, suit or proceeding if he has been successful in defense of such action, suit or proceeding and if such action, suit or proceeding is one for which the corporation may indemnify him under Section 351.355(1) or (2). Section 351.355(7) provides that the corporation shall have the power to give any further indemnity to any such person, in addition to the indemnity otherwise authorized under Section 351.355, provided such further indemnity is authorized, directed or provided for in (i) the articles of incorporation of the corporation, (ii) any duly adopted amendment thereof, or (iii) any bylaw or agreement of the corporation which has been adopted by the shareholders of the corporation, and provided further that no such indemnity may indemnify any person from or on account of such person's conduct which was finally adjudged to have been knowingly fraudulent, deliberately dishonest or willful misconduct.

The Company's Articles of Incorporation (the "Articles") contain provisions indemnifying the Company's directors and officers (other than a director or officer suing on his own behalf or in the right of the Company) to the full extent permitted by law. The Articles provide that the Company will indemnify its directors and officers against all expenses (including attorneys' fees), judgments, fines and settlement amounts actually and reasonably incurred

by them in any action, suit or proceeding, including any action by or on behalf of the Company, on account of their services as a director or officer of the Company, or their services as a director, officer, employee, member or agent of another corporation, partnership, joint venture, trust, trade or industry association or other enterprise when they are serving in such capacities at the request of the Company, excepting only cases where the conduct of such person is finally adjudged to be knowingly fraudulent, deliberately dishonest or willful misconduct. The Articles further provide that the Company shall pay or advance defense expenses to any director or officer of the Company upon receipt of an undertaking from such director or officer to repay those expenses if it is ultimately determined that he is not entitled to be indemnified. The Articles further provide that the Company may indemnify employees and agents of the Company to the same extent as provided in the previous sentence or to such lesser extent as the Company in its discretion may deem appropriate.

The Articles also authorize the Company to enter into indemnification agreements with any director, officer, employee or agent of the Company providing for indemnification rights to the maximum extent permitted by law. The Company has entered into an indemnification agreement with each member of its board of directors. Each indemnification agreement was approved by all members of the Board of Directors at meetings of the Board of Directors. In each agreement, the Company agreed to indemnify the director and hold him harmless to the full extent authorized or permitted by the General and Business Corporation Law of Missouri, or by any amendment thereof, or by any other statutory provision authorizing or permitting such indemnification which may be adopted, and specifically against any and all expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by the director in connection with certain threatened, pending or completed actions, suits or proceedings, to which the director is, was or becomes a party. Indemnification will not be provided under certain circumstances set forth in the indemnification agreements.

The directors and officers of the Company are covered by an insurance policy which indemnifies them against certain civil liabilities including, under certain circumstances, liabilities under the federal securities laws which might be incurred by them in such capacity.

The foregoing summaries are subject to the complete text of the statute, the Company's Articles and Bylaws, and the arrangements referred to above, and are qualified in their entirety by reference thereto.

Item 7. Exemption from Registration Claimed.

Not applicable.

Item 8. Exhibits.

The following documents are filed as exhibits to this registration statement; exhibit numbers correspond to the exhibit table in Item 601 of Regulation S-K:

Exhibit Number	Description	Document Location
3.1(a)	Restated Articles of Incorporation	Exhibit 3(a) to the Company's Form 10-K for the fiscal year ended September 30, 1999 (SEC File No. 1-10596)
3.1(b)	Amended Certificate of Designation, Preferences and Rights of Series A Participating Cumulative Preferred Stock	Exhibit 4(e) to the Company's Form 10-Q for the fiscal quarter ended March 31, 2000 (SEC File No. 1-10596)
3.1(c)	Articles of Merger, effective July 10, 2000	Exhibit 3(c) to the Company's Form 10-Q for the fiscal quarter ended June 30, 2000 (SEC File No. 1-10596)
3.2(a)	Bylaws, as amended and restated	Exhibit 3.4 to the Company's Form 10-K for the fiscal year ended September 30, 2003 (SEC File No. 1-10596)
3.2(b)	Amendment to Bylaws, effective February 2, 2007	Exhibit 3.5 to the Company's Form 10-Q for the fiscal quarter ended December 31, 2006 (SEC File No. 1-10596)
3.2(c)	Amendment to Bylaws, effective November 9, 2007	Exhibit 3.1 to the Company's Form 8-K filed November 13, 2007 (SEC File No. 1-10596)
4.1	Specimen revised Common Stock Certificate	Exhibit 4.1 to the Company's Form 10-Q for the fiscal quarter ended March 31, 2010 (SEC File No. 1-10596)
4.2	Credit Agreement dated as of May 14, 2012 among the Registrant, the Foreign Subsidiary Borrowers from time to time party thereto, the Lenders from time to time party thereto, JPMorgan Chase Bank, N.A. as Administrative Agent, PNC Bank, National Association as Syndication Agent, and SunTrust Bank, Wells Fargo Bank, National Association and Bank of America, N.A. as Co-Documentation Agents.	Exhibit 4.1 to the Company's Form 8-K filed May 18, 2012 (SEC File No. 1-10596)
5	Opinion of Jeffrey D. Fisher, Assistant General Counsel of the Company	Filed herewith
23.1	Consent of Counsel	Included in Exhibit 5
23.2	Consent of KPMG LLP	Filed herewith
24	Powers of Attorney	Included on the signature page hereto

Item 9. Undertakings.

(a) The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

Provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the registrant pursuant to Section 13 or 15(d) of the Exchange Act that are incorporated by reference in the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

....

(h) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Oxnard, State of California, on February 6, 2013.

ESCO TECHNOLOGIES INC.

By: /s/ Alyson S. Barclay

Alyson S. Barclay
Senior Vice President, General Counsel and Secretary

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below hereby severally constitutes and appoints G.E. Muenster, Alyson S. Barclay and Jeffrey D. Fisher, and each of them, his true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities to sign any and all amendments (including post-effective amendments) to this registration statement, and to file the same, with all exhibits thereto, and all other documents in connection therewith, with The Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that each said attorneys-in-fact and agents or any of them or their or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ V.L. Richey, Jr.</u> V.L. Richey, Jr.	President, Chief Executive Officer and Director (Principal Executive Officer)	February 6, 2013
<u>/s/ G.E. Muenster</u> G.E. Muenster	Executive Vice President and Chief Financial Officer and Director (Principal Financial Officer)	February 6, 2013
<u>-</u> <u>/s/ J.M. McConnell</u> J.M. McConnell	Director	February 6, 2013
<u>/s/ L.W. Solley</u> L.W. Solley	Director	February 6, 2013
<u>/s/ J.M. Stolze</u> J.M. Stolze	Director	February 6, 2013
<u>/s/ D.C. Trauscht</u> D.C. Trauscht	Director	February 6, 2013
<u>_____</u> J. D. Woods	Director	_____, 2013

EXHIBITS

The following exhibits are submitted with and attached to this Form S-8. For a complete list of exhibits including those incorporated by reference, see Item 8 of this Form S-8, above.

Exhibit Number	Description
5	Opinion of Jeffrey D. Fisher, Assistant General Counsel of the Company
23.1	Consent of Counsel (included in Exhibit 5)
23.2	Consent of KPMG LLP
24	Powers of Attorney (included on the signature page)

ESCO Technologies Inc.
9900A Clayton Road
St. Louis, MO 63124-1186

Jeffrey D. Fisher
Assistant General Counsel

February 6, 2013

ESCO Technologies Inc.

9900A Clayton Road

St. Louis, MO 63124

Ladies and Gentlemen:

I am an Assistant General Counsel of ESCO Technologies Inc., a Missouri corporation (the "Company"), and in such capacity I am familiar with the Registration Statement on Form S-8 (the "Registration Statement") relating to the Company's 2013 Incentive Compensation Plan (the "Plan") to which this letter is filed as an exhibit.

The Registration Statement registers 1,449,107 shares of the Company's common stock, par value \$0.01 per share (the "Common Stock"), offered pursuant to stock options, stock appreciation rights, performance-accelerated restricted stock awards, restricted stock awards and other stock-based awards which may be granted under the Plan.

I have examined originals or copies, certified or otherwise identified to my satisfaction, of such documents, corporate records, certificates of public officials and other instruments as I have deemed necessary for the purpose of the opinion expressed herein.

On the basis of the foregoing, I am of the opinion that the Common Stock, when sold in accordance with the provisions of the Plan, will be legally issued, fully paid and non-assessable.

I consent to the filing of this letter as an exhibit to the Registration Statement.

Sincerely yours,

/s/ Jeffrey D. Fisher

Assistant General Counsel

Consent of Independent Registered Public Accounting Firm

The Board of Directors
ESCO Technologies Inc.:

We consent to the use in this registration statement on Form S-8 of ESCO Technologies Inc. of our report dated November 29, 2012, with respect to the consolidated balance sheets of ESCO Technologies Inc. and subsidiaries as of September 30, 2012 and 2011, and the related consolidated statements of operations, shareholders' equity, and cash flows for each of the years in the three-year period ended September 30, 2012, and the effectiveness of internal control over financial reporting as of September 30, 2012, incorporated herein by reference.

/s/ KPMG LLP

St. Louis, Missouri

February 8, 2013