I'm calling from Peter D. Hart Research, the national public opinion polling firm. We are conducting a national survey, and I'd really appreciate the chance to get your opinions on a few questions. Your number was selected at random, and in this household, I am supposed to speak with the youngest (man/woman) age 18 or over who is at home now. This is a public opinion survey, and you will not be sold anything.

(If respondent mentions the "Do Not Call" list, say:) The Do Not Call List does not apply to survey research. While we certainly respect your right NOT to participate, I assure you that this interview is being conducted for research purposes only, and we hope that you will take advantage of this opportunity to express your opinions. We guarantee that your individual responses will be kept completely confidential, and that no one will try to sell you anything as a result of your participation.

Gender (Do Not Ask.) Record respondent's gender.

Male ................................................................. 1
Female .............................................................. 2

Q1 Do you or does anyone in your household work in market or opinion research, advertising or public relations, or media, including radio, television, print, or on-line publications?

Yes ................................................................. 1 TERMINATE
No ................................................................. 2
Not sure/Refused ................................................. 3 TERMINATE

Q2 For statistical purposes only, would you please tell me how old you are? (If "Refused," Ask:) Well, would you tell me which age group you belong to? (Read list.)

18-24 ................................................................. 1
25-29 ................................................................. 2
30-34 ................................................................. 3
35-39 ................................................................. 4
40-44 ................................................................. 5
45-49 ................................................................. 6
50-54 ................................................................. 7
55-59 ................................................................. 8
60-64 ................................................................. 9
65-69 ................................................................. 10
70-74 ................................................................. 1
75 and over ...................................................... 2
Not sure/refused ................................................ 3

Q3a And again, for statistical purposes only, are you from a Hispanic or Spanish-speaking background?

Yes, Hispanic .................................................. 1
No, not Hispanic .............................................. 2
Not sure/refused .............................................. 3

Q3b And again, for statistical purposes only, what is your race—white, black, Asian, or something else?

White .............................................................. 1
Black ............................................................... 2
Asian ............................................................... 3
Other .............................................................. 4
Hispanic (VOL) ................................................ 5
Not sure/refused ............................................. 6
Q4 Compared with what you hoped the quality of your life would be like at this stage, how satisfied would you say you are with your life right now—extremely satisfied, pretty satisfied, just somewhat satisfied, or dissatisfied? (2910 - Q1a June 1989; 6416b - Q1 December 2001)

- Extremely satisfied ..............................................................1
- Pretty satisfied .....................................................................2
- Just somewhat satisfied .........................................................3
- Dissatisfied ..............................................................................4
- Not sure ..................................................................................5

Q5 In the twentieth century, America was marked by a can-do spirit of optimism. Looking ahead to the next hundred years, do you think that this spirit of optimism will increase, stay about the same, or will decrease? (6000 Q20b - September 1999)

- Spirit will increase .................................................................1
- Spirit will stay the same .........................................................2
- Spirit will decrease ...............................................................3
- Not sure ..................................................................................4

Q6a Next I'd like to list several professions and ask you to tell me which one or two you feel receive too much attention and credit for contributing to Americans' well-being. (READ LIST. ACCEPT UP TO TWO RESPONSES. IF MORE THAN TWO, ASK:) Well, if you had to choose just two, which two do you feel get too much attention and credit?

- Business and finance .........................................................1
- Law and the legal field .........................................................2
- Medicine and health care .....................................................3
- Science and engineering ......................................................4
- Teaching and education ......................................................5
- Manufacturing .................................................................6
- Entertainment ....................................................................7
- Other (VOL) .......................................................................8
- All (VOL) ............................................................................9
- None (VOL) .......................................................................10
- Not sure ...............................................................................11

Q6b And which one or two of these do you feel receive too little attention and credit for contributing to Americans' well-being. (READ LIST. ACCEPT UP TO TWO RESPONSES. IF MORE THAN TWO, ASK:) Well, if you had to choose just two, which two do you feel get too little attention and credit?

- Business and finance .........................................................1
- Law and the legal field .........................................................2
- Medicine and health care .....................................................3
- Science and engineering ......................................................4
- Teaching and education ......................................................5
- Manufacturing .................................................................6
- Entertainment ....................................................................7
- Other (VOL) .......................................................................8
- All (VOL) ............................................................................9
- None (VOL) .......................................................................10
- Not sure ...............................................................................11
(ASK EVERYONE.)

Q7a  Thinking about the major technological advancements of the twentieth century, such as the development of automobiles and airplanes, radio and television, spacecraft, and computers and the Internet, which of the following countries or regions would you say was the leader? (READ LIST. ACCEPT ONLY ONE RESPONSE. IF MORE THAN ONE, ASK:) Well, if you had to choose just one, which one country or region would you say was the leader in terms of the technological advancements of the twentieth century?

The United States .................................................................1
Europe .................................................................2
Russia .................................................................3
China .................................................................4
Japan .................................................................5
India .................................................................6
Other (VOL) .................................................................7
All (VOL) .................................................................8
None (VOL) .................................................................9
Not sure .............................................................................0

Q7b  Now looking ahead to the twenty-first century, do you think that the technological advancements will be greater, equal, or less than those of the twentieth century?

Advancements will be greater ........................................1
Advancements will be equal .............................................2
Advancements will be less ..............................................3
Not sure .............................................................................4

Q7c  Thinking about the major technological challenges of the twenty-first century, ranging from energy to telecommunications, to medicines, which of the following countries or regions would you say is the most likely to be the leader? (READ LIST. ACCEPT ONLY ONE RESPONSE. IF MORE THAN ONE, ASK:) Well, if you had to choose just one, which one country or region would you say is most likely to be the leader in terms of the technological advancements in the twenty-first century?

The United States .................................................................1
Europe .................................................................2
Russia .................................................................3
China .................................................................4
Japan .................................................................5
India .................................................................6
Other (VOL) .................................................................7
All (VOL) .................................................................8
None (VOL) .................................................................9
Not sure .............................................................................0

Q8a  Would you say that the United States' ability to compete technologically has gotten better, has stayed about the same, or has gotten worse over the past generation?

Gotten better .................................................................1  (Skip to Q9)
Stayed about the same .............................................2  (Skip to Q9)
Gotten worse .............................................................3  (Skip to Q9)
Not sure .............................................................................4

(ASK ONLY OF RESPONDENTS WHO SAY "GOTTEN WORSE" IN Q8a.)

Q8b  What would you say is the cause or source of the decline in America's ability to compete technologically with other countries?

(PROBE:) How or why has America fallen behind other countries when it comes to competing technologically?

........................................................................................................
(ASK ONLY OF RESPONDENTS WHO SAY "GOTTEN WORSE" IN Q8a.)

Q8c  Do you feel that the decline in America's ability to compete technologically with other countries is temporary or long term?

Decline is temporary ........................................... 1
Decline is long term ............................................ 2
Not sure ................................................................. 3

(READ TO EVERYONE.)
Now I'd like to focus on engineers and the field of engineering.

Q9  Give yourself a letter grade--A, B, C, D, or F--for how much you know about and understand the world of engineers and what they do.

A ................................................................. 1
B ................................................................. 2
C ................................................................. 3
D ................................................................. 4
F ................................................................. 5
Not sure .......................................................... 6

Q10a  When it comes to young people today selecting a profession or career, do you feel that engineering is winning or losing to other professions, such as medicine, business, and law?

Engineering is winning ........................................ 1
Engineering is losing ......................................... 2  (Skip to Q10c)
Neither winning nor losing (VOL) .......................... 3  (Skip to Q11a)
Not sure ................................................................. 4  (Skip to Q11a)

(ASK ONLY OF RESPONDENTS WHO SAY WINNING IN Q10a.)

Q10b  Why is engineering winning over medicine, business, and law?

(PROBE:) What makes engineering a more attractive profession for young people today?

................................................................................

(ASK ONLY OF RESPONDENTS WHO SAY LOSING IN Q10a.)

Q10c  Why is engineering losing over medicine, business, and law?

(PROBE:) What makes engineering a less attractive profession for young people today?

................................................................................

(ASK EVERYONE.)

Q11a  Compared with the issues and problems that professionals in the fields of medicine, business, and law deal with, do you feel that the issues and problems that engineers deal with are more interesting and important, or less interesting and important?

More interesting and important ........................................ 1
Less interesting and important ...................................... 2
The same (VOL) ..................................................... 3  (Skip to Q12)
Not sure ................................................................. 4  (Skip to Q12)

(ASK ONLY OF RESPONDENTS WHO SAY MORE/LESS INTERESTING IN Q11a.)

Q11b  Is that much (more/less) interesting and important or only somewhat (more/less) interesting and important?

Much ........................................................................ 1
Only somewhat ..................................................... 2
Not sure ................................................................. 3
(ASK EVERYONE.)

Q12 The National Academy of Engineering has identified several engineering challenges that it believes will be key to our advancement in the twenty-first century. I’m going to describe some of these and ask you to tell me how much of a priority you feel each one should be for our nation going forward—an absolute top priority, a high but not top priority, a medium priority, or a lower priority.

- Developing economical and environmentally friendly power sources
- Finding ways to provide clean water around the world.
- Developing medicines to fight new and more virulent disease-causing agents.
- Restoring and improving deteriorating urban infrastructures.
- Securing cyberspace against viruses, identity theft, or other attacks.

An absolute top priority .............................................. 1
A high but not top priority ........................................... 2
A medium priority ..................................................... 3
A lower priority ............................................................ 4
Not sure ........................................................................... 5

Q13 Next I’m going to list these same engineering challenges again and ask you to tell me which one or two you feel are the most important to pursue. (READ LIST. ACCEPT UP TO TWO RESPONSES. IF MORE THAN TWO, ASK): Well, if you had to choose just two, which two do you feel are the most important?

- Developing economical and environmentally friendly power sources. ... 1
- Finding ways to provide clean water around the world. .................... 2
- Developing medicines to fight new and more virulent disease-causing agents. .................................................. 3
- Restoring and improving deteriorating urban infrastructures. .............. 4
- Securing cyberspace against viruses, identity theft, or other attacks. .... 5
- All (VOL) ............................................................ 6
- None/other (VOL) ................................................................ 7
- Not sure ........................................................................... 8

Q14a Having heard these descriptions of different engineering challenges, compared with the issues and problems that professionals in the fields of medicine, business, and law deal with, do you feel that the issues and problems engineers deal with are more interesting and important, or less interesting and important?

- More interesting and important ........................................... 1
- Less interesting and important .......................................... 2
- The same (VOL) ................................................................ 3
- Not sure ........................................................................... 4

(Skip to Q15)
(ASK ONLY OF RESPONDENTS WHO SAY MORE/LESS INTERESTING AND IMPORTANT IN Q14a.)

Q14b Is that much (more/less) interesting and important or only somewhat (more/less) interesting and important?

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
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<tbody>
<tr>
<td>Much</td>
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</tr>
<tr>
<td>Only somewhat</td>
<td>2</td>
</tr>
<tr>
<td>Not sure</td>
<td>3</td>
</tr>
</tbody>
</table>

(ASK EVERYONE.)

Q15 Compared with the United States, do you feel that (READ ITEM) is better able, just as able, or less able to succeed in meeting the types of engineering challenges we have been discussing?

<table>
<thead>
<tr>
<th>Country</th>
<th>Code</th>
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<tbody>
<tr>
<td>China</td>
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<tr>
<td>The European Union</td>
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<tr>
<td>India</td>
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<td>Japan</td>
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<tr>
<td>Russia</td>
<td>5</td>
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<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Better able to succeed</td>
<td>1</td>
</tr>
<tr>
<td>Just as able to succeed</td>
<td>2</td>
</tr>
<tr>
<td>Less able to succeed</td>
<td>3</td>
</tr>
<tr>
<td>Not sure</td>
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</table>

Q16 Getting near the end of the survey, here are some things that could be done to improve our global competitiveness in the areas of engineering and technology. For each one, please tell me whether you feel that it would help a lot, would help some, would not really help, or would go too far and be a step in the wrong direction.

- Increase the regular school year by one month so American students can get more math and science education
- Have the government devote more tax funding for research and development in basic research, especially in the physical sciences and engineering.
- Target tax breaks to businesses to encourage greater investment in research and development, even if this means some businesses will pay less in taxes.
- Provide more training and retraining for workers to help them keep up with new technology and the skills of the future.
- Increase the standards for teachers and students in public schools, including higher standards for graduation.
- Target tax breaks to encourage investment in key industries.
- Upgrade K-through-twelve math and science teaching to foster higher student achievement.
- Reform visa and immigration policies to enable the United States to attract and retain the best and brightest science, technology, math, and engineering students from around the world to study for advanced degrees and stay to work in the United States.

<table>
<thead>
<tr>
<th>Description</th>
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<td>Would help a lot</td>
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<tr>
<td>Would help some</td>
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<tr>
<td>Would not really help</td>
<td>3</td>
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<tr>
<td>Would go too far/step in the wrong direction</td>
<td>4</td>
</tr>
<tr>
<td>Not sure</td>
<td>5</td>
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</table>
FACTUALS: Now I am going to ask you a few questions for statistical purposes only.

QF1  What is the last grade that you completed in school? (DO NOT READ CHOICES.)

Grade school .................................................................1
Some high school ............................................................2
High school graduate ......................................................3
Some college, no degree ..................................................4
Vocational training/2-year college ....................................5
4-year college/bachelor's degree ......................................6
Some postgraduate work, no degree .................................7
2 or 3 years' postgraduate work/master's degree ...............8
Doctoral/law degree .......................................................9
Not sure/refused ................................................................0

QF2  Do you have any children eighteen years old or under living at home with you?

Yes, have children at home .................................................1
No, do not have children at home .......................................2
Not sure/refused ...............................................................3

QF3a Are you registered to vote, or have you not had a chance to register?

Registered .........................................................................1
Not registered .................................................................2
Not sure ............................................................................3

QF3b Generally speaking, do you think of yourself as (ROTATE:) a Democrat, a Republican, an independent, or something else? (IF "DEMOCRAT" OR "REPUBLICAN," ASK:) Would you call yourself a strong (Democrat/Republican) or not a very strong (Democrat/Republican)? (IF "NOT SURE," CODE AS "NOT VERY STRONG DEMOCRAT/REPUBLICAN.") (IF "INDEPENDENT," ASK:) Do you think of yourself as closer to the Republican Party, closer to the Democratic Party, or do you think of yourself as strictly independent? (IF "NOT SURE," CODE AS "STRICTLY INDEPENDENT.")

Strong Democrat ............................................................1
Not very strong Democrat .................................................2
Independent/lean Democrat ............................................3
Strictly independent ........................................................4
Independent/lean Republican .........................................5
Not very strong Republican ..........................................6
Strong Republican ..........................................................7
Other (VOL) .................................................................8
Not sure ............................................................................9

QF4  And finally, may I please have your ZIP Code?

...........................................................................................

Numeric Range

Don't Know ........................................................................Y

Permitted Range

1000 TO 99999
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Numeric Range
Permitted Range
1 TO 999

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<td>2--Mid-Atlantic</td>
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<tr>
<td>3--WV, MD, DE, DC</td>
<td>.......................................</td>
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<tr>
<td>4--South Atlantic minus Area 3</td>
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<tr>
<td>5--East South Central</td>
<td>......................................</td>
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<td>6--West South Central minus AR</td>
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<td>4--Suburbs of Medium Cities</td>
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Those are all the questions I have for you. Thank you for your time and cooperation.

Termination with data (Quit)